Intel® Express 410 Standalone Switch

Quick Start and User Guide

English
中文
한 국 어
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Italiano
Deutsch
Español



intel®

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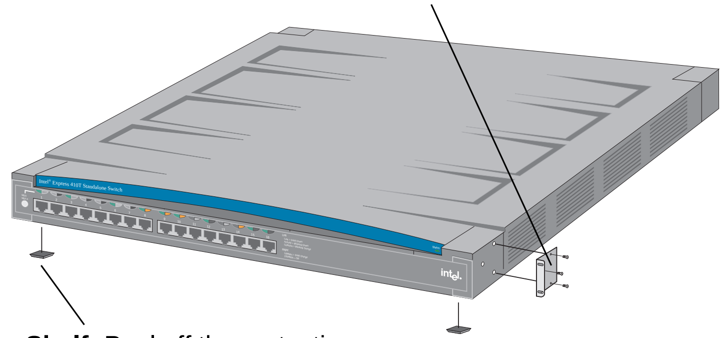
Quick Start

English

1 Install the Switch

- Remove the switch and parts from the box.
- Attach the enclosed brackets if you plan to mount the switch in a rack.
- Install the Intel® Express 410T or 410F Standalone Switch in a rack or on a shelf.
- Plug in the power cord.

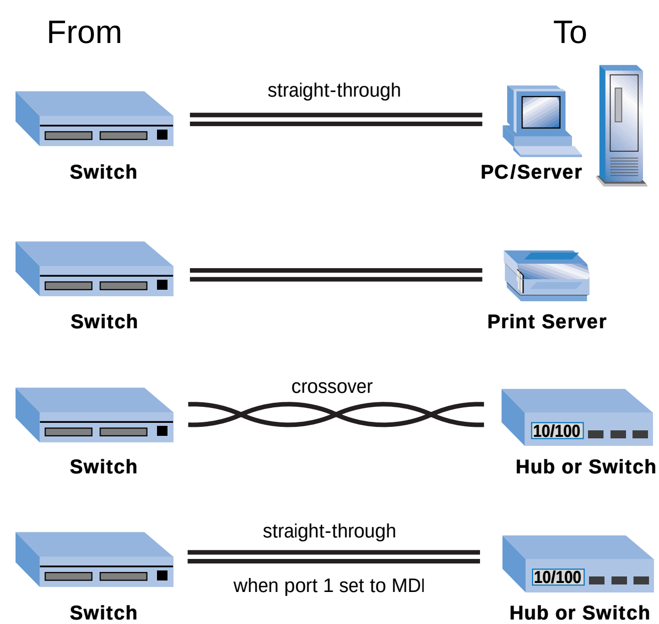
Rack: Use the three small screws to attach the brackets to the switch.



Shelf: Peel off the protective backing and attach the rubber feet to the switch.

2 Connect the Devices

- All ports automatically detect the speed and duplex-mode of any connected device.
- Connect PCs and print servers to the switch with straight-through cables.
- Use a crossover cable to connect a switch to another switch or hub.
- Use a straight-through cable to connect to another switch or hub when port 1 is set to MDI.
- Use only CAT 5 UTP cable to connect 100Mbps devices. To connect 10Mbps devices, use CAT 3, 4, or 5 UTP cable.

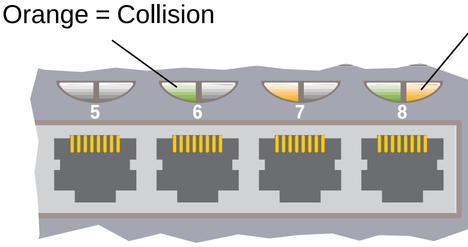


3 Check the Connections

- Check the port LEDs to confirm the link status.
- A solid green LED (on the left) indicates a valid link.

Left (Green/Orange)
Solid Green = Link
Blinking Green = Activity
Blinking Orange = Collision

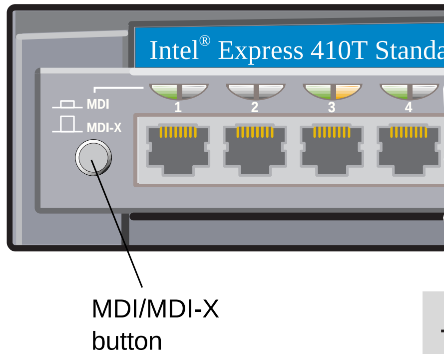
Right (Orange)
Off = 100Mbps
Solid = 10Mbps



Optional Information

4 How to Change Port 1 from MDI-X to MDI

- All ports on the switch are MDI-X. Press the MDI/MDI-X button to change port 1 to MDI so you can connect to another switch or hub using a straight-through cable.





5 Access the Configuration Screen

- Connect your PC to the Management module's serial port using the null-modem cable (included).

- Set a VT100-compatible terminal emulation program (such as HyperTerminal*) to these parameters:

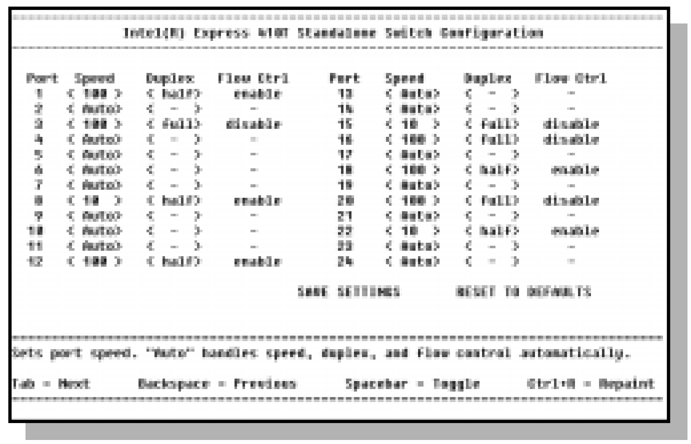
  - 9600 baud
  - No parity
  - No flow control
  - 8 data bits
  - 1 stop bit

  Press Enter to connect to the Configuration screen.

- Navigate the screen with these keys:

Key	Action
Tab	Move to next item.
Backspace	Move to previous item.
Spacebar	Toggle options within a field.
Ctrl + S	Save changes to configuration.
Ctrl + R	Repaint the screen.

- <Auto> is the default setting for the ports. You only need to configure the port settings if you are having difficulty connecting to a device.



Intel(R) Express 410T Standalone Switch Configuration

Port	Speed	Duplex	Flow Ctrl	Port	Speed	Duplex	Flow Ctrl
1	< 100 >	< half>	enable	13	< Auto>	< – >	–
2	< Auto>	< – >	–	14	< Auto>	< – >	–
3	< 100 >	< full>	disable	15	< 10 >	< full>	disable
4	< Auto>	< – >	–	16	< 100 >	< full>	disable
5	< Auto>	< – >	–	17	< Auto>	< – >	–
6	< Auto>	< – >	–	18	< 100 >	< half>	enable
7	< Auto>	< – >	–	19	< Auto>	< – >	–
8	< 10 >	< half>	enable	20	< 100 >	< full>	disable
9	< Auto>	< – >	–	21	< Auto>	< – >	–
10	< Auto>	< – >	–	22	< 10 >	< half>	enable
11	< Auto>	< – >	–	23	< Auto>	< – >	–
12	< 100 >	< half>	enable	24	< Auto>	< – >	–

SAVE SETTINGS RESET TO DEFAULTS

Sets port speed. "Auto" handles speed, duplex, and flow control automatically.

Tab = Next Backspace = Previous Spacebar = Toggle Ctrl+R = Repaint

Configuration Screen: Items enclosed with angle brackets < > indicate a toggle field. Use the Spacebar to toggle selections.

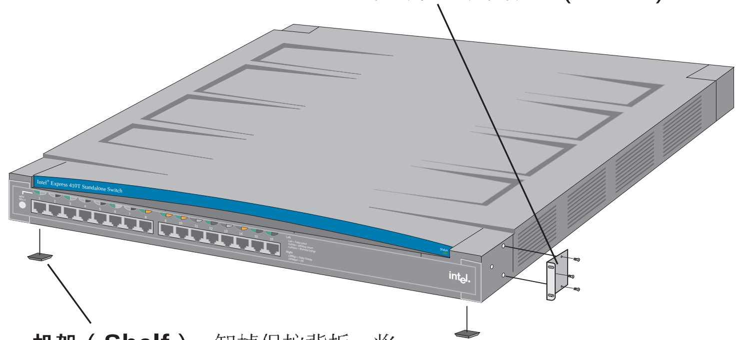
Speed	Auto = all port settings are automatically negotiated. 100 = port set to 100Mbps. 10 = port set to 10Mbps.
Duplex	Half = port set to half duplex. Full = port set to full duplex. – = port set to auto mode.
Flow Control	enable = flow control is enabled in half duplex mode (back pressure). disable = flow control is disabled in full duplex mode. – = port set to auto mode.

快速起步

中文

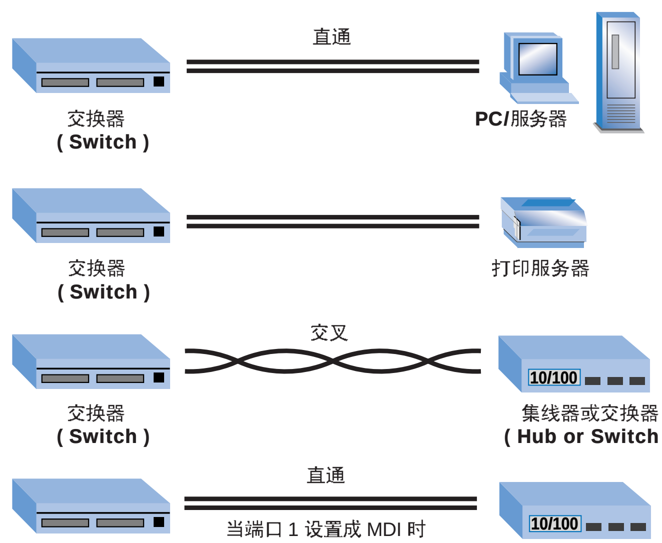
1 安装交换器

- 从盒中取出交换器和零件。
- 如果您要在机柜中安装，请将交换器安装在附加的支架上。
- 在机架上或机柜上安装 Intel® Express 410T 或 410F Standalone Switch。
- 插入电源线。



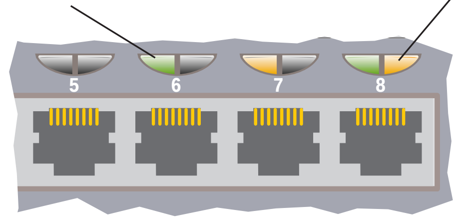
2 连接设备

- 所有端口自动检测所有与之相连设备的速度和双工模式。
- 用直通电缆将 PC 机和打印服务器与交换器连接。
- 用交叉电缆将交换器与另一交换器或集线器连接。
- 当端口 1 设置为 MDI 时，用直通电缆连接另一交换器或集线器。
- 只能用 CAT 5 UTP 电缆连接 100 Mbps 设备。如果要连接 10 Mbps 设备，请使用 CAT 3、4 或 5 UTP 电缆。



3 检查连接

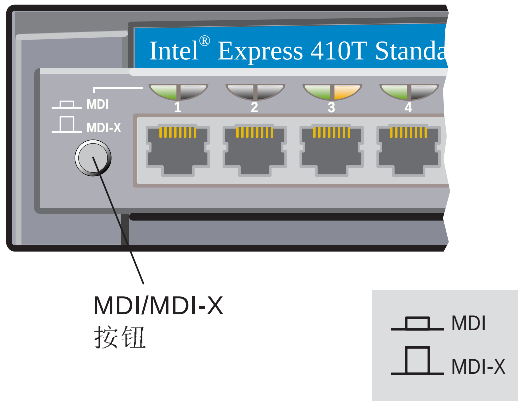
- 检查端口的 LED，确认链接状态。
- LED 呈持续绿色（端口左边）表示有效链接。



可选信息

4 如何将端口 1 从 MDI-X 改为 MDI

- 交换器上的所有端口都是 MDI-X。按 MDI/MDI-X 按钮可将端口 1 改为 MDI，这样您就可以用直通电缆与交换器或集线器连接。



5 使用配置屏幕

- 用（配备的）零调制解调器电缆将您的 PC 连接到管理模块的串行端口。
- 设置 VT100 兼容终端模拟程序（例如超级终端*）为这些参数：

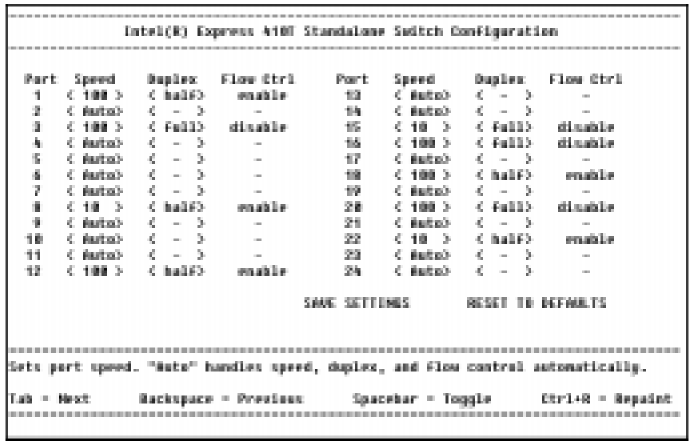
  - 9600 波特率
  - 无奇偶校验
  - 无流控制
  - 8 数据位
  - 1 停止位

  按 Enter 键连接到配置屏幕。

- 用这些键导航菜单：

Tab	移至下一项。
Backspace	移至前一项。
Spacebar	切换域内的选项。
Ctrl + S	将变化保存于配置中。
Ctrl + R	重画屏幕。

- <自动>是对端口的默认设置。只有在连接设备有问题时，才需配置其端口设置。



Intel(R) Express 410T Standalone Switch Configuration

Port	Speed	Duplex	Flow Ctrl	Port	Speed	Duplex	Flow Ctrl
1	< 100 >	< half>	enable	13	< Auto>	< – >	–
2	< Auto>	< – >	–	14	< Auto>	< – >	–
3	< 100 >	< Full>	disable	15	< 10 >	< Full>	disable
4	< Auto>	< – >	–	16	< 100 >	< Full>	disable
5	< Auto>	< – >	–	17	< Auto>	< – >	–
6	< Auto>	< – >	–	18	< 100 >	< half>	enable
7	< Auto>	< – >	–	19	< Auto>	< – >	–
8	< 10 >	< half>	enable	20	< 100 >	< Full>	disable
9	< Auto>	< – >	–	21	< Auto>	< – >	–
10	< Auto>	< – >	–	22	< 10 >	< half>	enable
11	< Auto>	< – >	–	23	< Auto>	< – >	–
12	< 100 >	< half>	enable	24	< Auto>	< – >	–

SAVE SETTINGS   RESET TO DEFAULTS

Sets port speed. "Auto" handles speed, duplex, and flow control automatically.

Tab = Next   Backspace = Previous   Spacebar = Toggle   Ctrl+R = Repaint

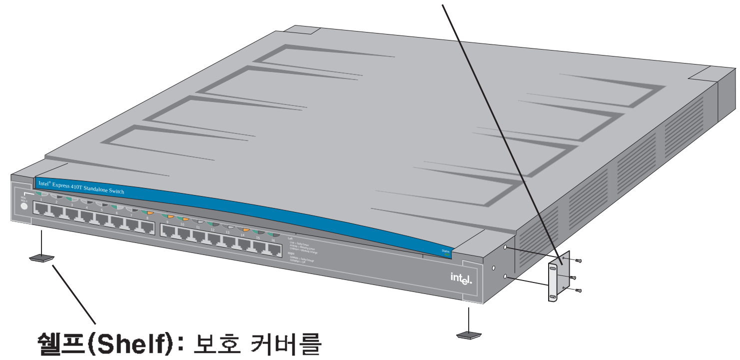
配置屏幕：尖括弧 < > 中包含的项目表示切换区域。
用 Spacebar 键切换选定区域。

速度 (Speed)	自动 (Auto) = 所有端口的设置为自动协商。 100 = 端口设置为 100 Mbps。 10 = 端口设置为 10 Mbps。
双工模式 (Duplex)	半 (Half) = 端口设置为半双工。 全 (Full) = 端口设置为全双工。 – = 端口设置为自动模式。
流控制 (Flow Control)	启用 (Enable) = 在半双工模式下启用流控制（后压）。 禁用 (Disable) = 在全双工模式下禁用流控制。 – = 端口设置为自动模式。

빠른 시작

1 스위치 설치

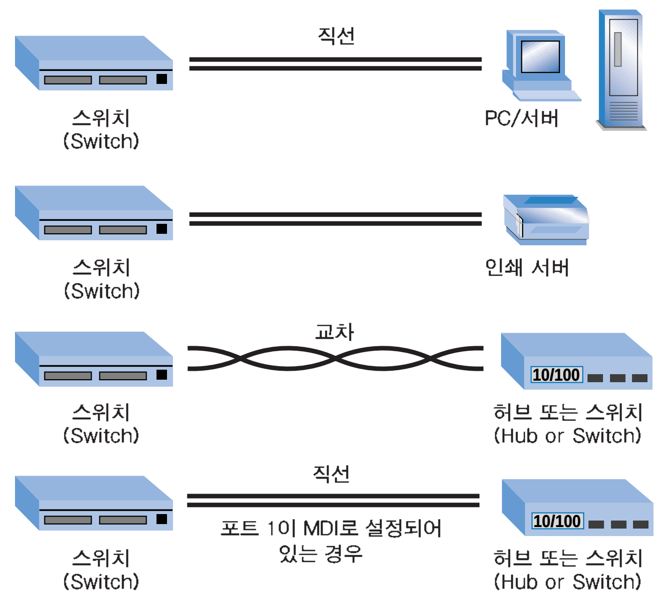
- 상자에서 스위치와 부품을 꺼냅니다.
- 스위치를 랙에서 탑재하려면 포함된 브래킷을 연결합니다.
- Intel® Express 410T 또는 410F를 설치하십시오.
- 전원을 연결합니다.



한국어

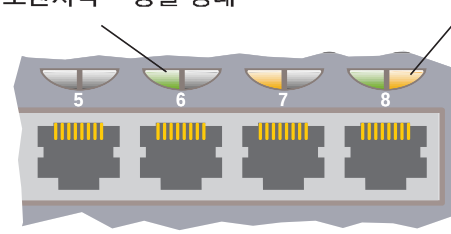
2 장치 연결

- 모든 포트는 연결된 장치의 속도와 이중 모드를 자동으로 검색하도록 설정되어 있습니다.
- 인쇄 서버와 PC를 스위치에 연결하려면 직선 케이블을 사용합니다.
- 스위치를 허브나 다른 스위치에 연결하려면 교차 케이블을 사용합니다.
- 포트 1이 MDI으로 설정되어 있는 경우에 다른 허브나 스위치에 연결하려면 직선 케이블을 사용합니다.
- 100Mbps 장치를 연결하려면 CAT 5 UTP 케이블만 사용합니다. 10Mbps 장치를 연결하려면 CAT 3, 4 또는 5 UTP 케이블을 사용합니다.



3 연결 확인

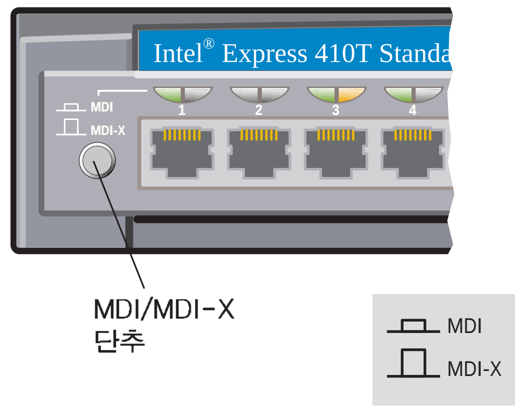
- 연결 상태를 확인하려면 포트의 LED를 점검합니다.
- 왼쪽의 LED가 안정된 녹색이면 정확하게 연결되어 있음을 알려줍니다.



옵션 정보

4 포트 1을 MDI-X에서 MDI로 전환하는 방법

- 스위치의 모든 포트는 MDI-X로 설정되어 있습니다. MDI/MDI-X 단추를 눌러 포트 1을 MDI로 변경하면 직선 케이블을 사용하여 다른 허브나 스위치에 연결할 수 있습니다.



5 구성 화면

- 포함된 널 모뎀 케이블을 사용하여 PC를 관리 모듈의 직렬 포트에 연결합니다.

- HyperTerminal*과 같은 VT100-호환 터미널 에뮬레이션을 아래 매개 변수로 설정합니다.

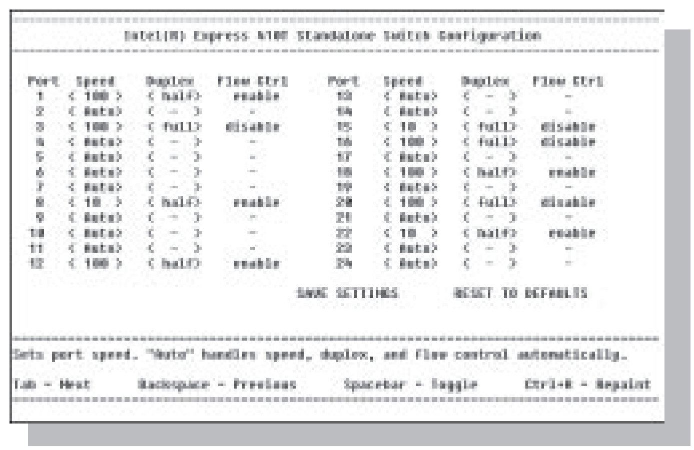
  - 9600 보드
  - 패리티 없음
  - 흐름 제어 없음
  - 8 데이터 비트
  - 1 종료 비트

  Enter 키를 눌러 구성 화면에 연결합니다.

- 메뉴를 사용할 때는 다음 키를 사용합니다.

Tab	다음 항목으로 이동
Backspace	이전 항목으로 이동
Spacebar	같은 필드 내의 토글 옵션
Ctrl + S	변경 내용 저장
Ctrl + R	화면 갱신

- 모든 포트의 기본 설정은 <자동(Auto)>입니다. 장치 연결에 문제가 있을 때는 포트 설정만 변경해 주면 됩니다.



구성 화면: 꺾쇠 괄호 < > 안의 항목은 토글되는 필드입니다. 선택 항목을 토글할 때는 Spacebar 키를 사용하십시오.

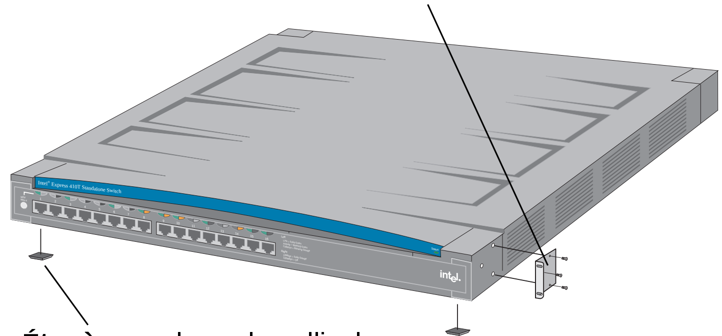
속도 (Speed)	자동(Auto) = 모든 포트 설정은 자동으로 설정됩니다. 100 = 포트를 100Mbps로 설정합니다. 10 = 포트를 10Mbps로 설정합니다.
이중 (Duplex)	반이중(Half) = 포트를 반이중으로 설정합니다. 전이중(Full) =포트를 전이중으로 설정합니다. – = 포트를 자동 모드로 설정합니다.
흐름 제어 (Flow Control)	사용(enable) = 반이중 모드로 흐름 제어를 사용합니다. 사용안함(disable) = 전이중 모드로 흐름 제어를 사용합니다. – = 포트를 자동 모드로 설정합니다.

Démarrage rapide

Français

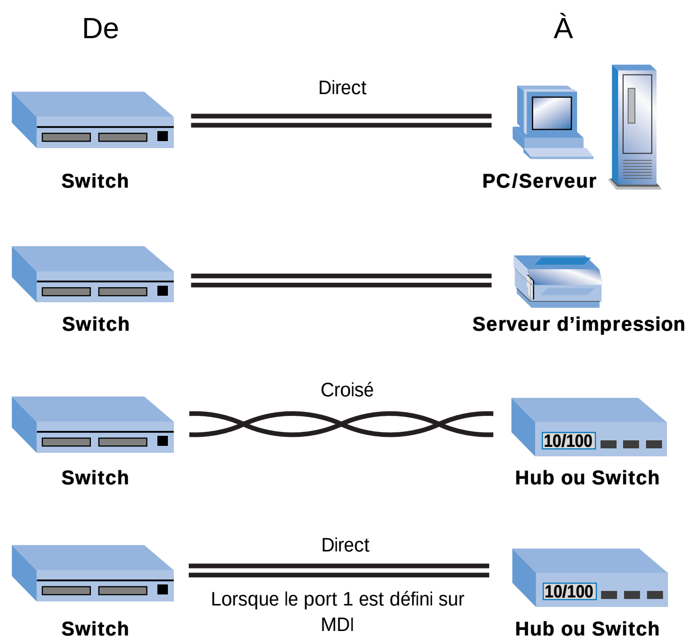
1 Installez le Switch

- Retirez le commutateur et les pièces de la boîte.
- Fixez les supports livrés avec l'appareil si vous envisagez de le monter dans une armoire.
- Installez Intel® Express 410T ou 410F Standalone Switch dans une armoire ou sur une étagère.
- Branchez l'alimentation électrique.



2 Connectez les périphériques

- Tous les ports sont configurés de manière à détecter automatiquement la vitesse et le mode duplex du périphérique connecté.
- Connectez les PC et les serveurs d'impression au switch à l'aide de câbles directs.
- Utilisez un câble croisé pour connecter le switch à un autre switch ou à un hub.
- Utilisez un câble direct pour vous connecter à un autre switch ou à un hub lorsque le port 1 est défini sur MDI.
- Utilisez uniquement un câble CAT 5 UTP pour connecter des périphériques 100 Mbps. Pour connecter des périphériques 10 Mbps, utilisez un câble CAT 3, 4 ou 5 UTP.

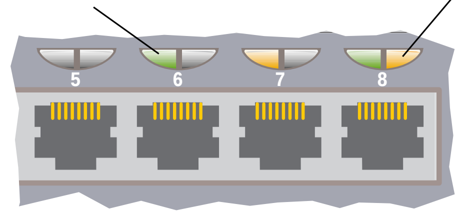


3 Vérifiez les connexions

- Vérifiez les diodes du port pour confirmer l'état de la liaison.
- Une lumière verte continue (sur le côté gauche) indique une liaison valable.

Gauche (vert/orange)
Vert continu = Liaison
Vert clignotant = Activité
Orange clignotant = Collision

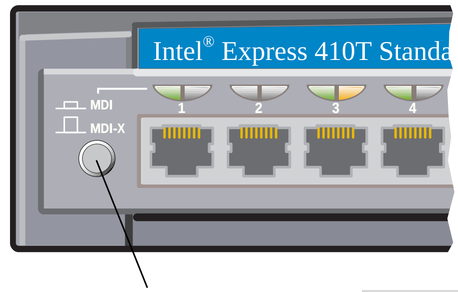
Droite (orange)
Éteint = 100 Mbps
Continu = 10 Mbps



Informations facultatives

4 Comment changer le port 1 de MDI-X en MDI ?

- Tous les ports du switch sont de type MDI-X. Pour changer le port 1 en MDI, appuyez sur le bouton MDI/MDI-X. Vous pourrez ainsi vous connecter à un autre switch ou à un hub à l'aide d'un câble direct.



Bouton MDI/MDI-X



5 Accédez à l'écran de configuration

- Connectez votre PC au port série du module de gestion en utilisant le câble de modem null joint.
- Définissez les paramètres suivants pour un programme d'émulation de terminal compatible VT100 (tel que HyperTerminal*) :

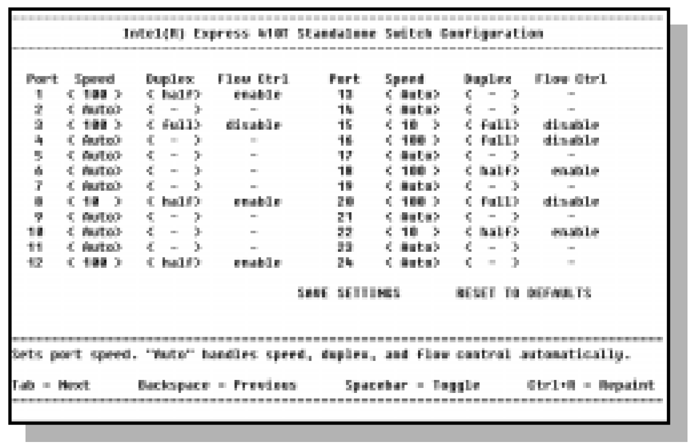
  - 9600 bauds
  - Pas de parité
  - Pas de contrôle de flux
  - 8 bits de données
  - 1 bit d'arrêt

  Appuyez sur [↵ Enter] pour vous connecter à l'écran de configuration.

- Utilisez les touches suivantes pour parcourir les menus :

[Tab ↹]	Passe à l'élément suivant.
[Backspace]	Passe à l'élément précédent.
[Spacebar]	Active les options dans un champ.
[Ctrl] + [S]	Enregistre les modifications dans la configuration.
[Ctrl] + [R]	Rafraîchit l'écran.

- <Auto> est la valeur par défaut définie pour ces ports. Si vous ne parvenez pas à connecter un périphérique, configurez ces paramètres de port.



Intel(R) Express 410T Standalone Switch Configuration

Port	Speed	Duplex	Flow Ctrl	Port	Speed	Duplex	Flow Ctrl
1	< 100 >	< half>	enable	13	< Auto>	< - >	-
2	< Auto>	< - >	-	14	< Auto>	< - >	-
3	< 100 >	< full>	disable	15	< 10 >	< full>	disable
4	< Auto>	< - >	-	16	< 100 >	< full>	disable
5	< Auto>	< - >	-	17	< Auto>	< - >	-
6	< Auto>	< - >	-	18	< 100 >	< half>	enable
7	< Auto>	< - >	-	19	< Auto>	< - >	-
8	< 10 >	< half>	enable	20	< 100 >	< full>	disable
9	< Auto>	< - >	-	21	< Auto>	< - >	-
10	< Auto>	< - >	-	22	< 10 >	< half>	enable
11	< Auto>	< - >	-	23	< Auto>	< - >	-
12	< 100 >	< half>	enable	24	< Auto>	< - >	-

SAVE SETTINGS   RESET TO DEFAULTS

Sets port speed. "Auto" handles speed, duplex, and flow control automatically.

Tab = Next   Backspace = Previous   Spacebar = Toggle   Ctrl+R = Repaint

Écran de configuration : les éléments placés entre les signes < > indiquent un champ à bascule. Appuyez sur [Spacebar] pour passer d'une sélection à l'autre.

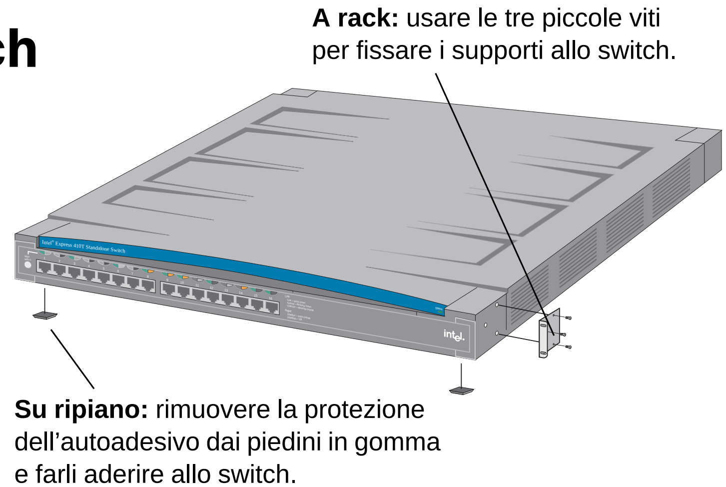
Speed	Auto = Tous les ports sont automatiquement paramétrés. 100 = Port défini sur 100 Mbps. 10 = Port défini sur 10 Mbps.
Duplex	Half = Port défini sur semi-duplex. Full = Port défini sur duplex intégral. – = Port défini sur le mode auto.
Flow Control	enable = Contrôle de flux activé en mode semi-duplex (pression arrière activée). disable = Contrôle de flux désactivé en mode duplex intégral. – = Port défini sur le mode auto.

Français

Introduzione rapida

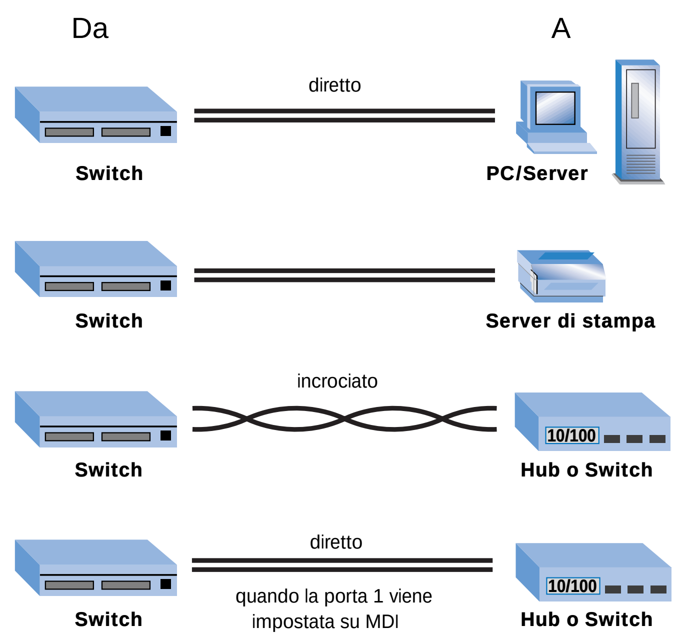
1 Installazione dello switch

- Rimuovere lo switch e le altre parti dalla confezione.
- Se si intende montare lo switch a rack, fissare i supporti allegati.
- Installare Intel® Express 410T o 410F Standalone Switch in un rack o su un ripiano.
- Collegare il cavo di alimentazione.



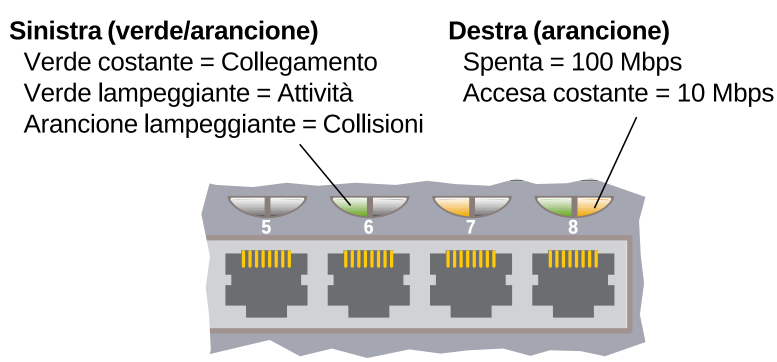
2 Collegamento dei dispositivi

- Tutte le porte sono in grado di rilevare la velocità e la modalità duplex dei dispositivi collegati.
- Connettere i PC e i server di stampa utilizzando un cavo diretto.
- Utilizzare un cavo incrociato per connettere uno switch a un altro switch o hub.
- Utilizzare un cavo diretto per la connessione a un altro hub o switch quando la porta viene impostata su MDI.
- Usare soltanto cavo UTP CAT 5 per collegare i dispositivi a 100 Mbps. Per collegare dispositivi a 10 Mbps usare cavo UTP CAT 3, 4 o 5.



3 Controllo dei collegamenti

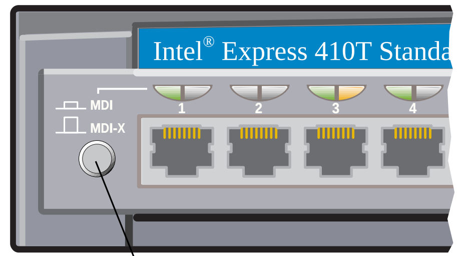
- Controllare le spie LED delle porte per verificare lo stato del collegamento.
- Una spia LED verde accesa con continuità (sulla sinistra) indica un collegamento valido.



Informazioni opzionali

4 Come modificare la Porta 1 da MDI-X a MDI

- Tutte le porte dello switch sono MDI-X. Premere il pulsante MDI/MDI-X per cambiare la Porta 1 in MDI così che sia possibile connettere un altro switch o hub utilizzando un cavo diretto.



Pulsante MDI/MDI-X



5 Accesso alla schermata di configurazione

- Connettere il PC alla porta seriale del Modulo di gestione utilizzando un cavo null-modem (incluso).
- Impostare un programma di emulazione di terminale compatibile con VT100 (come HyperTerminal*) sui seguenti parametri:

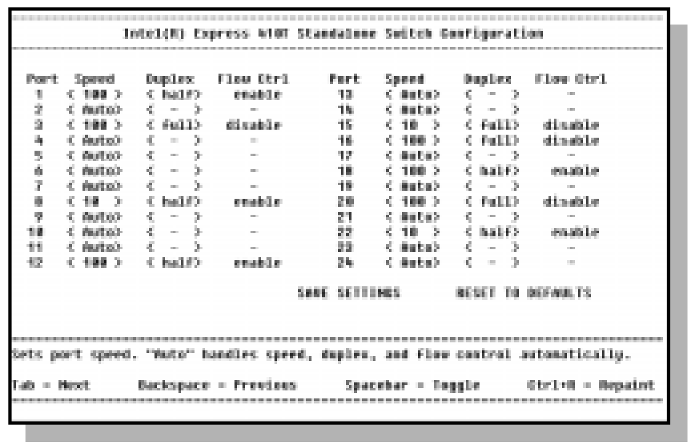
  - 9600 baud
  - Nessuna parità
  - Nessun controllo di flusso
  - 8 bit di dati
  - 1 bit di stop

  Premere ↵ Enter per connettersi alla schermata di configurazione.

- Spostarsi nei menu utilizzando i tasti seguenti:

Tab ⭾	Sposta all'elemento successivo.
Backspace	Sposta all'elemento precedente.
Spacebar	Passa da una opzione all'altra in un campo.
Ctrl + S	Salva le modifiche alla configurazione.
Ctrl + R	Aggiorna la schermata.

- <Auto> è l'impostazione predefinita delle porte. Occorre configurare le porte soltanto nel caso che si abbiano delle difficoltà di collegamento con un dispositivo.



Intel(R) Express 410T Standalone Switch Configuration

Port	Speed	Duplex	Flow Ctrl	Port	Speed	Duplex	Flow Ctrl
1	< 100 >	< half>	enable	13	< Auto>	< – >	–
2	< Auto>	< – >	–	14	< Auto>	< – >	–
3	< 100 >	< full>	disable	15	< 10 >	< full>	disable
4	< Auto>	< – >	–	16	< 100 >	< full>	disable
5	< Auto>	< – >	–	17	< Auto>	< – >	–
6	< Auto>	< – >	–	18	< 100 >	< half>	enable
7	< Auto>	< – >	–	19	< Auto>	< – >	–
8	< 10 >	< half>	enable	20	< 100 >	< full>	disable
9	< Auto>	< – >	–	21	< Auto>	< – >	–
10	< Auto>	< – >	–	22	< 10 >	< half>	enable
11	< Auto>	< – >	–	23	< Auto>	< – >	–
12	< 100 >	< half>	enable	24	< Auto>	< – >	–

SAVE SETTINGS RESET TO DEFAULTS

Sets port speed. "Auto" handles speed, duplex, and flow control automatically.

Tab = Next Backspace = Previous Spacebar = Toggle Ctrl+R = Repaint

Schermata di configurazione: Gli elementi all'interno delle parentesi ad angolo < > indicano un campo con due possibili stati. Usare Spacebar per passare da un'opzione all'altra.

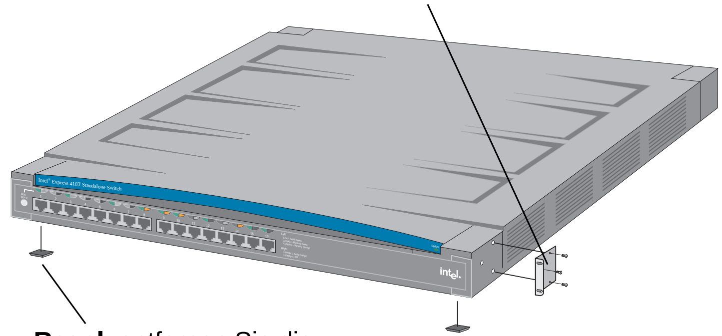
Speed	Auto = tutte le impostazioni della porta vengono impostate automaticamente. 100 = porta impostata su 100 Mbps. 10 = porta impostata su 10 Mbps.
Duplex	Half = porta impostata su half duplex. Full = porta impostata su full duplex. – = porta impostata su modalità automatica.
Flow Control	enable = Controllo attivato in modalità half duplex (back pressure). disable = Controllo disattivato in modalità full duplex. – = porta impostata in modalità automatica.

Italiano

Schnellstart

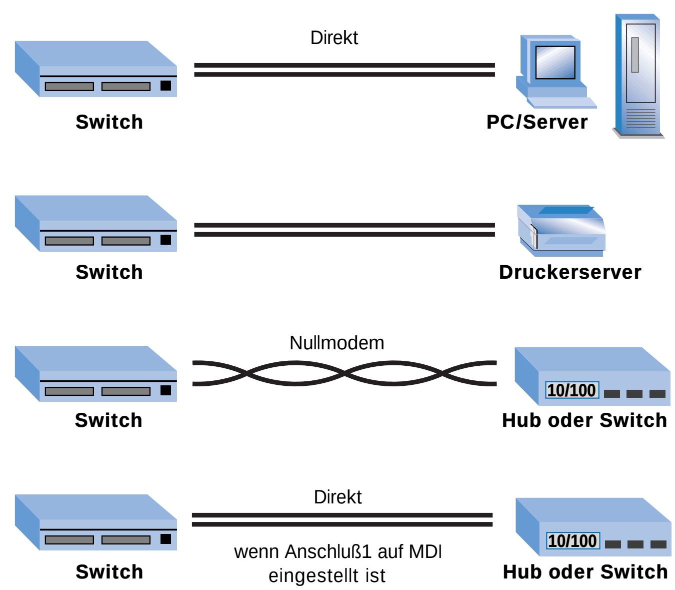
1 Installieren des Switches

- Entnehmen Sie den Switch und die Bauteile aus der Schachtel.
- Befestigen Sie die enthaltenen Klammern, wenn Sie den Switch in einem Gestell montieren wollen.
- Installieren Sie den Intel® Express 410T oder 410F Standalone Switch in einem Gestell oder Regal.
- Schließen Sie das Stromkabel an.



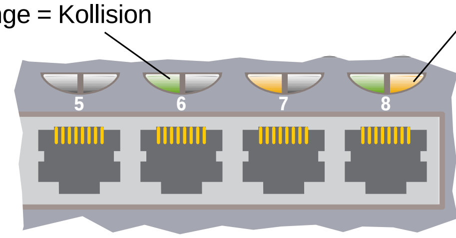
2 Anschließen der Geräte

- Alle Anschlüsse stellen automatisch die Geschwindigkeit und den Duplexmodus des angeschlossenen Gerätes fest.
- Schließen Sie PCs und Druckerserver über direkte Kabelverbindungen an.
- Verwenden Sie zur Verbindung des Switches mit dem Hub oder einem anderen Switch ein Nullmodemkabel.
- Verwenden Sie zur Verbindung des Switches mit dem Hub oder einem anderen Switch ein Direktkabel, wenn Anschluß 1 auf MDI eingestellt ist.
- Verwenden Sie für den Anschluß von 100 MB/s-Geräten ausschließlich CAT 5 UTP-Kabel. Für den Anschluß von 10 MB/s-Geräten verwenden Sie CAT 3, 4, or 5 UTP-Kabel.



3 Überprüfen der Verbindungen

- Überprüfen Sie die Anschluß-LEDs, um den Verbindungsstatus zu bestätigen.
- Eine ununterbrochen aufleuchtende grüne LED signalisiert eine gültige Verbindung.

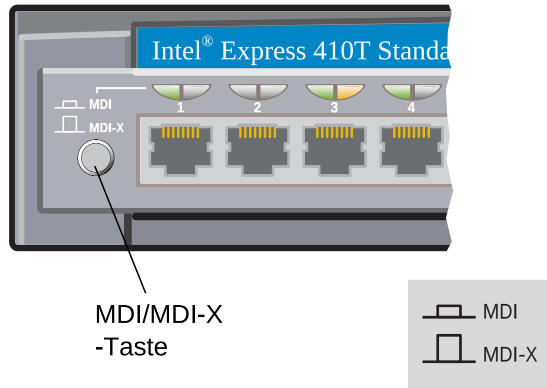


Deutsch

Optionale Informationen

4 So stellen Sie Anschluß 1 von MDI-X auf MDI um

- Alle Anschlüsse am Switch sind auf MDI-X eingestellt. Drücken Sie die Taste MDI/MDI-X, um Anschluß 1 auf MDI umzustellen, so daß Sie den Switch mit einem anderen Switch oder Hub über ein Direktkabel verbinden können.



5 Zugriff auf den Konfigurationsbildschirm

- Schließen Sie den PC mit dem Nullmodemkabel (mitgeliefert) am seriellen Anschluß des Management-Moduls an.
- Führen Sie in einem VT100-kompatiblen Terminalemulationsprogramm (z.B. HyperTerminal*) folgende Parametereinstellungen durch:

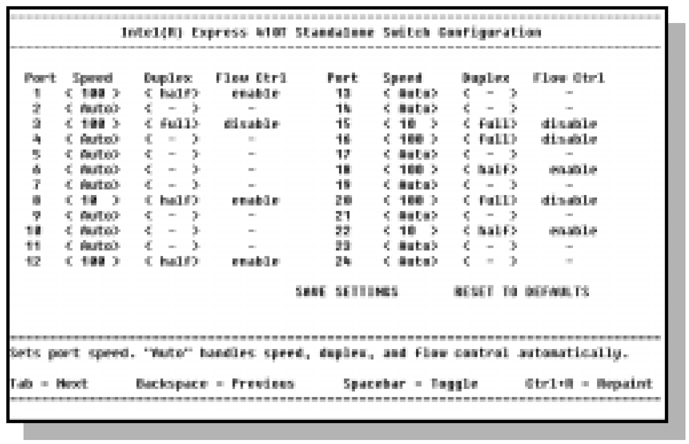
  - 9600 Baud
  - 8 Datenbits
  - Keine Parität
  - 1 Stoppbit
  - Keine Flußsteuerung

  Drücken Sie die Taste Enter, um zum Konfigurationsbildschirm zu gelangen.

- Mit folgenden Tasten können Sie sich im Menü bewegen:

Taste	Funktion
Tab	Zum nächsten Element gehen.
Backspace	Zum vorherigen Element gehen.
Spacebar	Zwischen Optionen innerhalb eines Feldes wechseln.
Ctrl + S	Änderungen in der Konfiguration speichern.
Ctrl + R	Bildschirm aktualisieren.

- <Auto> ist die standardmäßige Einstellung der Anschlüsse. Sollten Sie Schwierigkeiten haben, eine Verbindung zu einem Gerät herzustellen, konfigurieren Sie die Anschlußeinstellungen.



```
          Intel(R) Express 410T Standalone Switch Configuration

Port  Speed    Duplex   Flow Ctrl    Port  Speed    Duplex   Flow Ctrl
 1    < 100 >  < half>   enable       13   < Auto>  <  -  >     -
 2    < Auto>  <  -  >     -          14   < Auto>  <  -  >     -
 3    < 100 >  < full>   disable      15   < 10  >  < full>  disable
 4    < Auto>  <  -  >     -          16   < 100 >  < full>  disable
 5    < Auto>  <  -  >     -          17   < Auto>  <  -  >     -
 6    < Auto>  <  -  >     -          18   < 100 >  < half>   enable
 7    < Auto>  <  -  >     -          19   < Auto>  <  -  >     -
 8    < 10  >  < half>   enable       20   < 100 >  < full>  disable
 9    < Auto>  <  -  >     -          21   < Auto>  <  -  >     -
10    < Auto>  <  -  >     -          22   < 10  >  < half>   enable
11    < Auto>  <  -  >     -          23   < Auto>  <  -  >     -
12    < 100 >  < half>   enable       24   < Auto>  <  -  >     -

                         SAVE SETTINGS      RESET TO DEFAULTS

Sets port speed. "Auto" handles speed, duplex, and flow control automatically.

Tab = Next     Backspace = Previous     Spacebar = Toggle     Ctrl+R = Repaint
```

Konfigurationsbildschirm: Bei Elementen in spitzen Klammern < > können Sie mit der Taste Spacebar zwischen den verschiedenen Optionen wechseln.

Speed	Auto = alle Anschlußeinstellungen werden automatisch gewählt. 100 = Anschlußeinstellung auf 100 MB/s 10 = Anschlußeistellung auf 10 MB/s
Duplex	Half = Anschlußeinstellung Halbduplex Full = Anschlußeinstellung Vollduplex – = Anschlußeinstellung automatisch
Flow Control	Enable = Flußsteuerung aktiviert im Halbduplexbetrieb, (Datenrückstau). Disable = Flußsteuerung deaktiviert im Vollduplexbetrieb. – = Anschlußeinstellung autom.

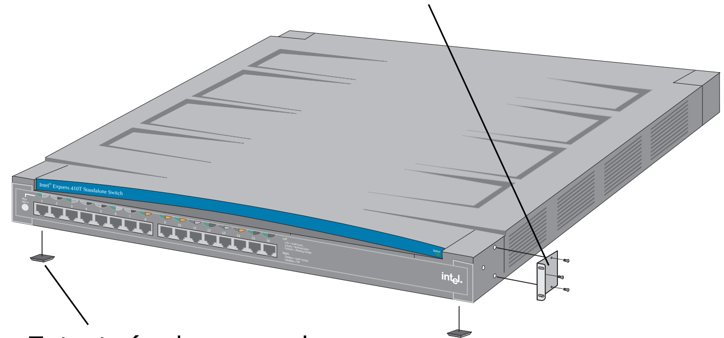
Deutsch

Inicio rápido

1 Instalar el Switch

- Extraiga el Switch y las piezas de la caja.
- Coloque las abrazaderas que se incorporan si piensa montar el Switch en un bastidor.
- Instale el Intel® Express 410T o 410F Standalone Switch en un bastidor o en una estantería.
- Conecte el cable de alimentación.

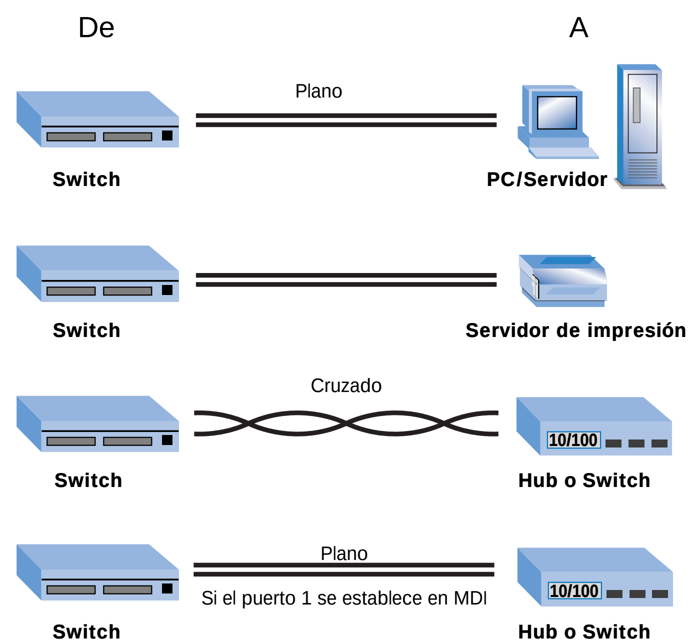
Bastidor: utilice los tres tornillos pequeños para colocar las abrazaderas en el Switch.



Estantería: despegue el respaldo protector y coloque el pie de goma en el Switch.

2 Conectar los dispositivos

- Todos los puertos detectan de manera automática la velocidad y la modalidad duplex de todos los dispositivos conectados.
- Conecte los servidores de PC y de impresión al Switch con cables planos.
- Utilice un cable cruzado para conectar un Switch con otro Switch o Hub.
- Utilice un cable plano para conectar con otro Switch o Hub si el puerto 1 se establece en MDI.
- Utilice sólo un cable UTP de categoría 5 para conectar dispositivos a 100 Mbps. Para conectar dispositivos a 10 Mbps, utilice un cable UTP de categoría 3, 4 ó 5.

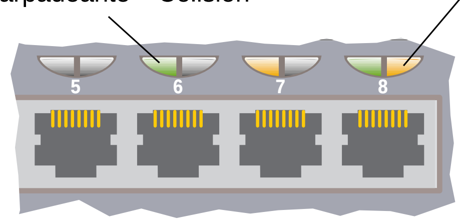


3 Comprobar las conexiones

- Compruebe los LED del puerto para confirmar el estado del enlace.
- Un LED verde estático (a la izquierda) indica que el enlace es válido.

Izquierda (color verde/naranja)
Verde estático = Enlace
Verde parpadeante = Actividad
Naranja parpadeante = Colisión

Derecha (color naranja)
Desactivado = 100 Mbps
Estático = 10 Mbps

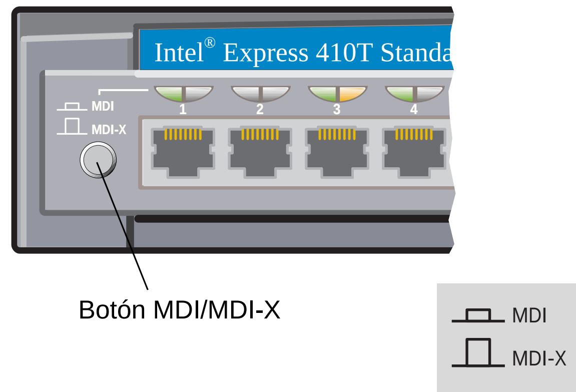


Español

Información opcional

4 Cómo cambiar el puerto 1 de MDI-X a MDI

- Todos los puertos del Switch son MDI-X. Pulse el botón MDI/MDI-X para cambiar el Puerto 1 a MDI, de manera que pueda conectarse con otro Switch o Hub mediante un cable plano.



5 Obtener acceso a la pantalla de configuración

- Conecte su PC al puerto serie del módulo de gestión mediante el cable de null-modem (incorporado).
- Establezca un programa de emulación de terminales compatible con VT100 (como, por ejemplo, HyperTerminal*) con estos parámetros:

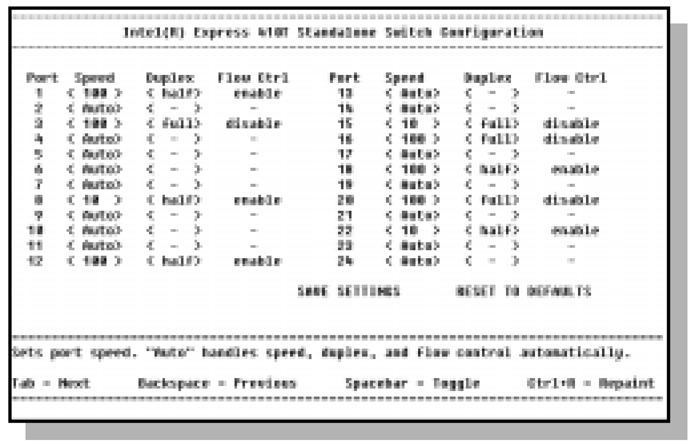
  - 9600 baudios
  - Sin paridad
  - Sin control de flujos
  - 8 bits de datos
  - 1 bit de parada

  Pulse [Enter] para conectarse con la pantalla de configuración.

- Navegue por los menús con estas teclas:

Tab	Se sitúa en el elemento siguiente.
Backspace	Desplaza al elemento anterior.
Spacebar	Conmuta opciones dentro de un campo.
Ctrl + S	Guarda cambios de configuración.
Ctrl + R	Redibuja la pantalla.

- <Auto> es el valor predeterminado de los puertos. Si surgen dificultades al conectarse con un dispositivo, simplemente tendrá que configurar los valores de los puertos.



Intel(R) Express 410T Standalone Switch Configuration

Port	Speed	Duplex	Flow Ctrl	Port	Speed	Duplex	Flow Ctrl
1	< 100 >	< half>	enable	13	< Auto>	< – >	–
2	< Auto>	< – >	–	14	< Auto>	< – >	–
3	< 100 >	< full>	disable	15	< 10 >	< full>	disable
4	< Auto>	< – >	–	16	< 100 >	< full>	disable
5	< Auto>	< – >	–	17	< Auto>	< – >	–
6	< Auto>	< – >	–	18	< 100 >	< half>	enable
7	< Auto>	< – >	–	19	< Auto>	< – >	–
8	< 10 >	< half>	enable	20	< 100 >	< full>	disable
9	< Auto>	< – >	–	21	< Auto>	< – >	–
10	< Auto>	< – >	–	22	< 10 >	< half>	enable
11	< Auto>	< – >	–	23	< Auto>	< – >	–
12	< 100 >	< half>	enable	24	< Auto>	< – >	–

SAVE SETTINGS RESET TO DEFAULTS

Sets port speed. "Auto" handles speed, duplex, and flow control automatically.

Tab = Next Backspace = Previous Spacebar = Toggle Ctrl+R = Repaint

Pantalla de configuración: los elementos acotados por paréntesis angulares < > indican que se trata de un campo que se puede conmutar. Utilice [Spacebar] para conmutar las selecciones.

Speed	Auto = todos los valores de puertos se negocian de manera automática. 100 = puerto establecido en 100 Mbps. 10 = puerto establecido en 10 Mbps.
Duplex	Half = puerto establecido en semidúplex. Full = puerto establecido en dúplex integrall. – = puerto establecido en modalidad auto.
Flow Control	Enable = el control de flujo se habilita en modalidad de semidúplex (contrapresión). Disable = control de flujo desactivado en modalidad de dúplex integral. – = puerto definido en modalidad auto.

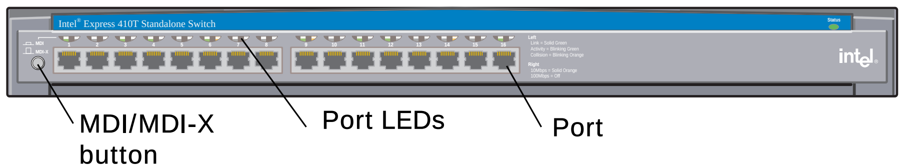
Español

User Guide - Overview

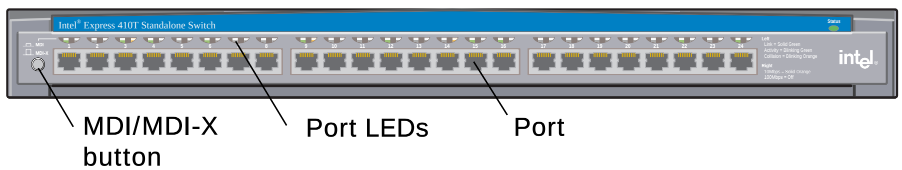
Features

This guide covers both the Intel® Express 410T (16- and 24-port versions) and 410F (24-port only) Standalone Switches.

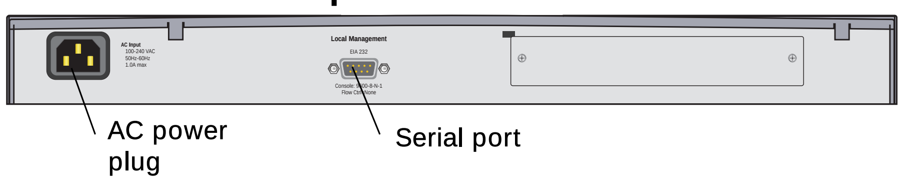
16-port 410T Switch (Product Code ES410T16)



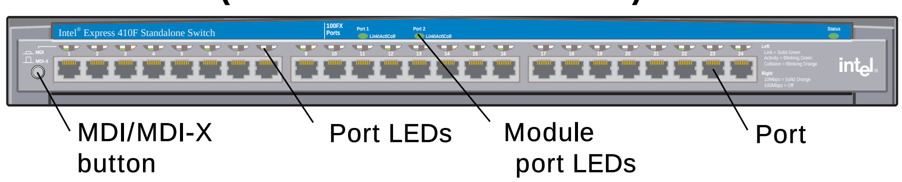
24-port 410T Switch (Product Code ES410T24)



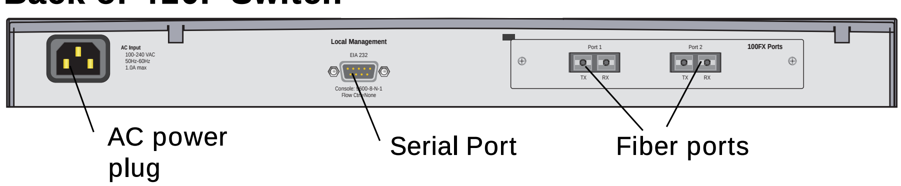
Back of 16- and 24-port 410T Switch



410F Switch (Product Code ES410F24)



Back of 410F Switch

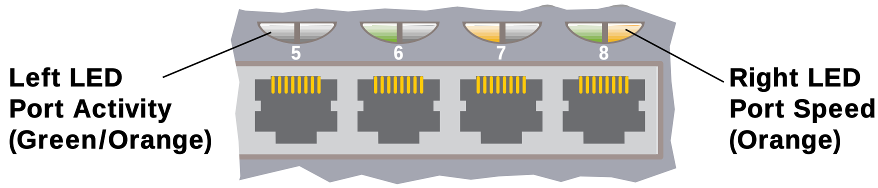


- 410T autonegotiates speed—10Mbps or 100Mbps *per port.*
- 410F's two fiber ports always operate at 100Mbps.
- 410 switches autonegotiate flow control.
- Port settings can be configured manually through Local Management.

About the 410T/F Switches

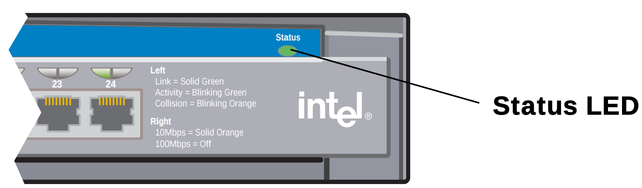
Port LEDs

The LEDs above each port indicate port activity and individual port speed.



LED	Status	Meaning
Left	Solid green	Device linked.
	Blinking green	Receiving activity on that port.
	Blinking orange	A collision was detected on this segment.
	Off	No link detected.
Right	Solid orange	Device connected at 10Mbps.
	Off	Device connected at 100Mbps.

Status LED

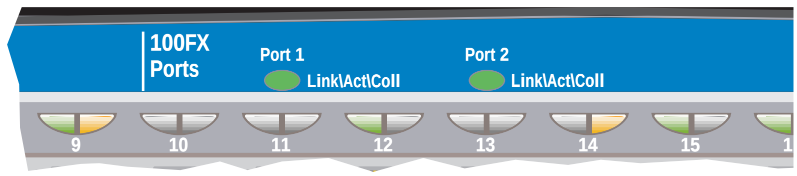


LED	Status	Meaning
Status	Orange	Switch is performing diagnostics.
	Green	Diagnostics have passed, the switch is ready.
	Red*	Diagnostics have failed.

*When the switch is first powered on, the Status LED will be red for a couple of seconds before the diagnostic mode starts, then it turns orange.

Fiber Port LEDs

The fiber port LEDs (410F only) are located on the front of the switch over ports 11 and 13. These LEDs provide information about the fiber ports' link, activity, and collisions.

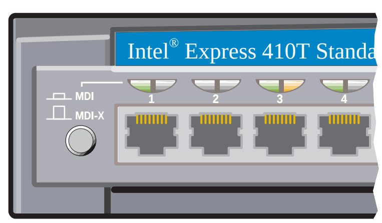


Status	Meaning
Solid green	Device linked.
Blinking green	Receiving activity on that port.
Blinking orange	A collision was detected on this segment.
Off	No link detected.

Crossover Button

The Express 410T/F switches have a button that toggles port 1 from MDI-X to MDI. This allows you to connect to another switch or a hub without using a crossover cable. For more information, see "Cabling Devices."



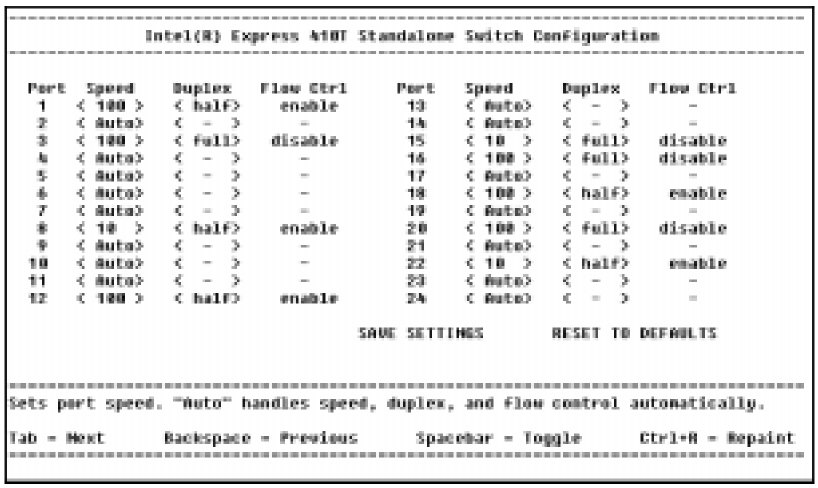


Local Management

Overview

The copper ports of the Express 410 switches negotiate speed and duplex automatically according to the device attached. The 410F's two fiber ports always operate at 100Mbps. If you need to change port settings, Local Management provides a way to configure the switch manually. Refer to the Quick Start section of this guide for instructions on connecting to Local Management.

Navigation



Intel(R) Express 410T Standalone Switch Configuration

Port	Speed	Duplex	Flow Ctrl	Port	Speed	Duplex	Flow Ctrl
1	< 100 >	< half>	enable	13	< Auto>	< - >	-
2	< Auto>	< - >	-	14	< Auto>	< - >	-
3	< 100 >	< full>	disable	15	< 10 >	< full>	disable
4	< Auto>	< - >	-	16	< 100 >	< full>	disable
5	< Auto>	< - >	-	17	< Auto>	< - >	-
6	< Auto>	< - >	-	18	< 100 >	< half>	enable
7	< Auto>	< - >	-	19	< Auto>	< - >	-
8	< 10 >	< half>	enable	20	< 100 >	< full>	disable
9	< Auto>	< - >	-	21	< Auto>	< - >	-
10	< Auto>	< - >	-	22	< 10 >	< half>	enable
11	< Auto>	< - >	-	23	< Auto>	< - >	-
12	< 100 >	< half>	enable	24	< Auto>	< - >	-

SAVE SETTINGS RESET TO DEFAULTS

Sets port speed. "Auto" handles speed, duplex, and flow control automatically.

Tab = Next Backspace = Previous SpaceBar = Toggle Ctrl+R = Repaint

Screen legend

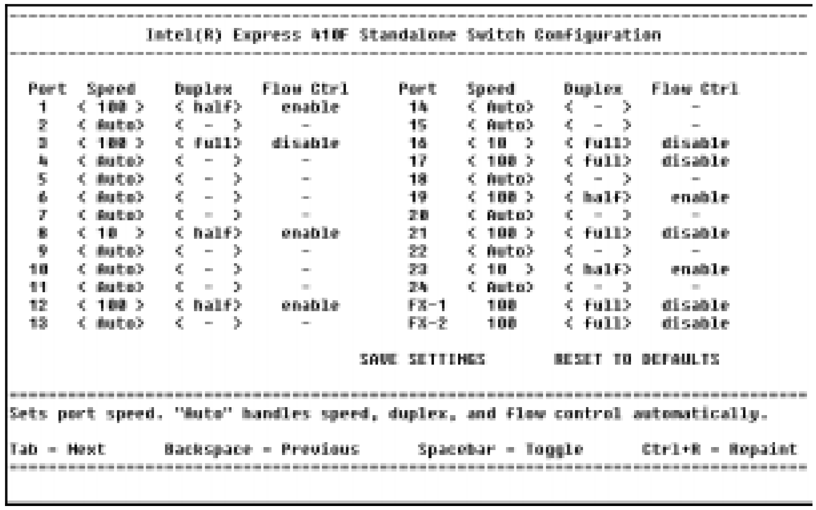
< 100 >	Angle brackets indicate a toggle field. Use Spacebar to toggle selections within the field.
SAVE SETTINGS	Any word in all CAPS is a button. Highlight it and press ↵ Enter to activate it.

Keyboard functions

Use the following keys to move around the screen and save changes.

Tab ⭾	Moves the cursor to the next item.
Bksp	Moves the cursor to the previous item.
Spacebar	Toggles selections within a field.
Ctrl + R	Repaints the screen (also clears any unsaved changes).
Ctrl + S	Saves configuration changes and resets the switch.

Functions



Help text at the bottom of the screen provides information on the selected item.

Description

Port: Displays the ports of the switch.

Speed: Press the Spacebar to toggle the field's options and change the speed of the port. You can toggle three settings:

Auto = speed and duplex are negotiated automatically
100 = port is forced to 100Mbps
10 = port is forced to 10Mbps

Note: The 410F's two fiber ports always operate at 100Mbps; for those ports this field is read-only.

Duplex: Press the Spacebar to toggle the duplex setting of the port. When the port Speed is set to "Auto," duplex displays a < - > and is handled automatically.

Flow Control: This field is read-only. When the port speed is set to Auto flow control displays a "-" and is handled automatically. When port duplex is manually set to half, flow control is enabled; when port duplex is manually set to full, flow control is disabled.

SAVE SETTINGS: Saves configuration changes and resets the switch (Ctrl + S also saves the settings and resets the switch).

RESET TO DEFAULTS: Resets the switch back to factory defaults. When this option is selected, the switch asks you to confirm your choice. Press "Y" (or "y") for Yes and the switch resets. Press "N" (or "n") for No and the action is cancelled.

Connecting to Devices

Connection Guidelines

General

- The copper ports of the 410 switches are capable of autonegotiating port speed and can operate at 10Mbps or 100Mbps per port. The switch matches the highest possible speed of an attached device.
- The 410F's two fiber ports always operate at 100Mbps.
- The 410 switches are capable of autonegotiating port duplex and can operate at half- or full-duplex.
- Configure the network so devices that talk primarily to each other are on the same segment. Each port is a single segment.

Cabling

- Use Category 5 unshielded twisted-pair (CAT 5 UTP) cable when connecting 100Mbps devices to the switch.
- Use Category 3, 4, or 5 unshielded twisted-pair (CAT 3, 4, or 5 UTP) cable when connecting 10Mbps devices to the switch.
- Limit the cable length between devices to 100 meters (328 feet).
- Use a straight-through cable to connect the switch to a server or workstation. For more information on cabling, see "Cabling Devices."
- To connect to another switch or hub use crossover cables, or set port 1 to MDI and use a straight-through cable.
- To connect a device to one of the fiber ports, use 62.5/125 µm multimode cabling. This cabling can be a maximum of 2,000m when operating at full-duplex, and 160m (to a hub) or 400m (to a router, switch, or PC) when operating at half-duplex.

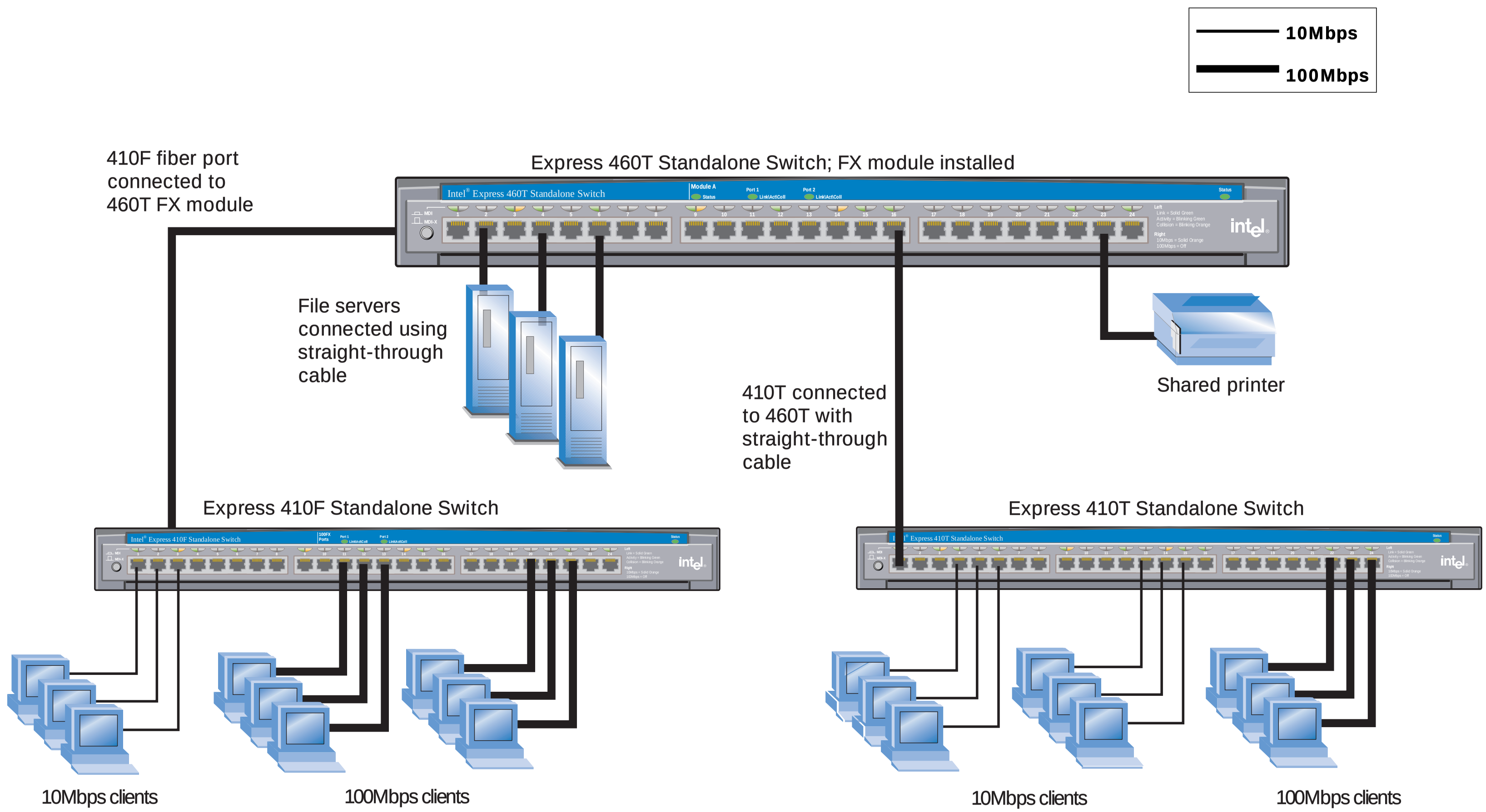
Flow control

During times of heavy network activity the switch's port buffers can receive too much traffic and fill up faster than the switch can send the information. In cases like this, the switch must tell the transmitting device to wait so the information in the buffer can be sent. This intervention is called flow control.

The Flow Control field displays the flow control status when you manually set port speed and duplex. Whether or not flow control is enabled depends on the duplex mode. In half-duplex mode, flow control is enabled. In full-duplex mode, flow control is disabled.

Workgroup Example

In this example Express 410F and 410T switches provide dedicated 10/100 Mbps bandwidth to the connected devices. The MDI/MDI-X button allows the Express 410T switch to connect to the 460T switch using a straight-through cable (instead of crossover cable). All ports on the switch are MDI-X, and the button is used to toggle port 1 to MDI.



Cabling Devices

Media Requirements

Incorrect cabling is often the cause of network performance problems. Read the next two pages if you're unsure of the requirements.

100Base-TX

The 100Base-TX Fast Ethernet specification requires that you use CAT 5 UTP cabling to operate at 100Mbps. You're limited to 100 meters between any two devices. If you use lower grade cabling (CAT 3 or CAT 4), you may get a connection, but will soon experience data loss or slow performance.

10Base-T

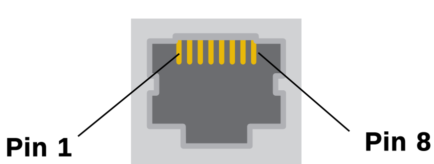
The 10Base-T Ethernet specification allows you to use CAT 3, CAT 4, or CAT 5 UTP cabling. You're limited to 100 meters between any two devices.

100Base-FX

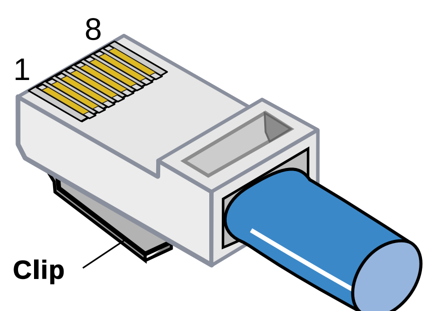
The fiber ports of the 410F switch let you connect to a switch up to 400 meters (hubs up to 160m) away at half-duplex or up to 2 km at full-duplex. Use 62.5/125µm multimode fiber optic cable with an SC-type fiber optic connector.

Straight-through vs. Crossover Cables

Switch ports are wired MDI-X, so use a straight-through cable when connecting to a workstation or server (network adapter cards are wired MDI). For direct connection to another MDI-X port, use the daisy-chain port or a crossover cable. Here are the pin arrangements for the switch's Ethernet port and the typical RJ-45 connector.



Ethernet Port



RJ-45 Connector

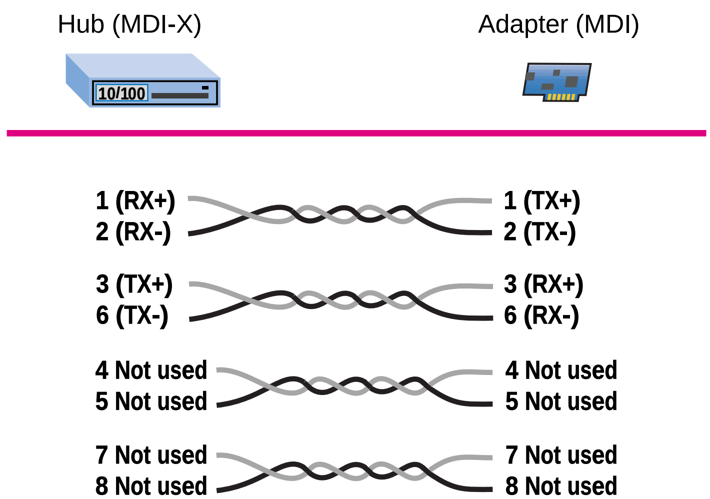
Testing a Cable

A quick way to check a cable's link integrity is to plug one end into port 1 and the other end into port 2. Make sure the MDI/MDI-X button is out. Check the Activity LEDs for ports 1 and 2. If the LEDs are on, you have a functioning **crossover cable**.

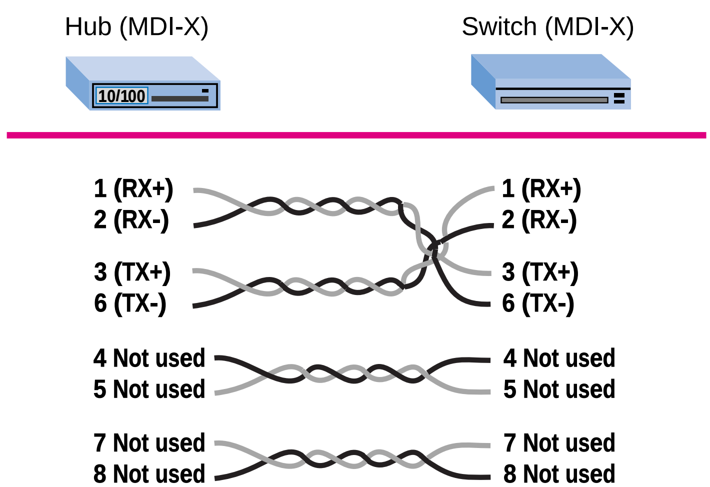
If the LEDs are off, push the MDI/MDI-X button in. If the Activity LEDs for ports 1 and 2 turn on, you have a functioning **straight-through cable**. However, if the LEDs remain off, you probably have a defective cable.

If a cable passes these tests, but the network connection is slow, verify that wires 1, 2 and 3, 6 on the cable are twisted pairs as shown in the diagrams.

Straight-through UTP cable



Crossover UTP cable



FAQs/Troubleshooting

How can I set the speed or duplex on individual ports?

Normally the switch handles all connections automatically but if you need to force speed or duplex, (for example, to accommodate older devices that don't support autonegotiation) use the Local Management.

I've connected the cable but the left port LED (link) is off. Why?

- Remove the cable and plug it in again. Wait up to six seconds for a link.
- Make sure you're using the correct type of cable (straight-through or crossover) for the device you want to connect to. If you're using the wrong cable, the link LED will not come on.
- Make sure the device you've connected to a port is a 10Base-T or 100Base-TX device. The Express 410T/F Standalone Switches don't support 100Base-T4 devices running at 100Mbps. However, they do support T4 devices running at 10Mbps.
- Check the speed and duplex settings on the PC's network adapter.
- The cable is defective.

I keep getting an intermittent loss of link (or data is not being transmitted). Why?

- You may be using the wrong grade of cable. The wrong cable can cause erratic performance and you may eventually lose the connection between the port and the attached device.
- Check the duplex setting for the device connected to the port. You may have to use the Local Management to force the port to half- or full-duplex.
- A cable segment somewhere in your collision domain may be too long. Make sure none of your UTP cabling is longer than 100 meters.
- Check the Ethernet cable pairs. The TX pairs (pins 1 and 2) and the RX pairs (pins 3 and 6) should be twisted pairs. See diagram in page 24.

After I connect to the Local Management I see a blank screen. Why?

- Make sure you are using a null modem cable (included).
- Check the settings in your terminal program. They should be set to 9600 baud, 8 data bits, No parity, 1 stop bit, and No flow control.
- Try pressing Ctrl + R to force the screen to repaint.

Regulatory Information and Warnings

FCC Part 15 Compliance Statement

This product has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning this equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Change the direction of the radio or TV antenna.
- · To the extent possible, relocate the radio, TV, or other receiver away from the product.
- · Plug the product into a different electrical outlet so that the product and the receiver are on different branch circuits.

If these suggestions don’t help, consult your dealer or an experienced radio/TV repair technician for more suggestions.

NOTE This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION If you make any modification to the equipment not expressly approved by Intel, you could void your authority to operate the equipment.

Canada Compliance Statement (Industry Canada)

Cet appareil numérique respecte les limites bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: “Appareils Numériques”, NMB-003 édictée par le Ministre Canadien des Communications.

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the interference-causing equipment standard entitled: “Digital Apparatus,” ICES-003 of the Canadian Department of Communications.

Manufacturer Declaration

This certifies that the Intel® Express 410T and 410F Standalone Switches comply with the EU Directive 89/336/EEC, using the EMC standards EN55022 (Class A) and EN55024. This product also meets or exceeds EN 60950 (safety) requirements. These products have been tested and verified to meet CISPR 22 Class A requirements.

Australia Statement

N-232

Taiwan Class A EMI Statement

警告使用者：
這是甲類的資訊產品， 在居住的環境中使用時， 可能會造成射頻干擾， 在這種情況下， 使用者會被要求採取某些適當的對策。

VCCI Statement

Class A ITE

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＡ情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

Warnings

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. Internal access to Intel® Express 410T and 410F Standalone Switches intended only for qualified service personnel. Do not remove any covers.

WARNING

The system is designed to operate in a typical office environment. Choose a site that is:

- · Clean and free of airborne particles (other than normal room dust).
- · Well ventilated and away from sources of heat including direct sunlight.
- · Away from sources of vibration or physical shock.
- · Isolated from strong electromagnetic fields produced by electrical devices.
- · In regions that are susceptible to electrical storms, we recommend you plug your system into a surge suppressor and disconnect telecommunication lines to your modem during an electrical storm.
- · Provided with a properly grounded wall outlet.

Do not attempt to modify or use the supplied AC power cord if it is not the exact type required.

Ensure that the system is disconnected from its power source and from all telecommunications links, networks, or modems lines whenever the chassis cover is to be removed. Do not operate the system with the cover removed.

AVERTISSEMENT

Le système a été conçu pour fonctionner dans un cadre de travail normal. L’emplacement choisi doit être:

- · Propre et dépourvu de poussière en suspension (sauf la poussière normale).
- · Bien aéré et loin des sources de chaleur, y compris du soleil direct.
- · A l’abri des chocs et des sources de ibrations.
- · Isolé de forts champs magnétiques géenérés par des appareils électriques.
- · Dans les régions sujettes aux orages magnétiques il est recomandé de brancher votre système à un supresseur de surtension, et de débrancher toutes les lignes de télécommunications de votre modem durant un orage.
- · Muni d’une prise murale correctement mise à la terre.

Ne pas utiliser ni modifier le câble d’alimentation C. A. fourni, s’il ne correspond pas exactement au type requis.

Assurez vous que le système soit débranché de son alimentation ainsi que de toutes les liaisons de télécomunication, des réseaux, et des lignes de modem avant d’enlever le capot. Ne pas utiliser le système quand le capot est enlevé.

AVVERTENZA

Il sistema è progettato per funzionare in un ambiente di lavoro tipico. Scegliere una postazione che sia:

- · Pulita e libera da particelle in sospensione (a parte la normale polvere presente nell’ambiente).
- · Ben ventilata e lontana da fonti di calore, compresa la luce solare diretta.
- · Al riparo da urti e lontana da fonti divibrazione.
- · Isolata dai forti campi magnetici prodotti da dispositivi elettrici.
- · In aree soggette a temporali, è consigliabile collegare il sistema ad un limitatore di corrente. In caso di temporali, scollegare le linee di comunicazione dal modem.
- · Dotata di una presa a muro correttamente installata.

Non modificare o utilizzare il cavo di alimentazione in c. a. fornito dal produttore, se non corrisponde esattamente al tipo richiesto.

Prima di rimuovere il coperchio del telaio, assicurarsi che il sistema sia scollegato dall’alimentazione, da tutti i collegamenti di comunicazione, reti o linee di modem. Non avviare il sistema senza aver prima messo a posto il coperchio.

WARNUNG

Das System wurde für den Betrieb in einer normalen Büroumgebung entwickelt. Der entwickelt. Der Standort sollte:

- · sauber und staubfrei sein (Hausstaub ausgenommen);
- · gut gelüftet und keinen Heizquellen ausgesetzt sein (einschließlich direkter Sonneneinstrahlung);
- · keinen Erschütterungen ausgesetzt sein;
- · keine starken, von elektrischen Geräten erzeugten elektromagnetischen Felder aufweisen;
- · in Regionen, in denen elektrische Stürme auftreten, mit einem Überspannungsschutzgerät verbunden sein; während eines elektrischen Sturms sollte keine Verbindung der Telekommunikationsleitungen mit dem Modem bestehen;
- · mit einer geerdeten Wechselstromsteckdose ausgerüstet sein.

Versuchen Sie nicht, das mitgelieferte Netzkabel zu ändern oder zu verwenden, wenn es sich nicht um genau den erforderlichen Typ handelt.

Das System darf weder an eine Stromquelle angeschlossen sein noch eine Verbindung mit einer Telekommunikationseinrichtung, einem Netzwerk oder einer Modem-Leitung haben, wenn die Gehäuseabdeckung entfernt wird. Nehmen Sie das System nicht ohne die Abdeckung in Betrieb.

ADVERTENCIAS

El sistema está diseñado para funcionar en un entorno de trabajo normal. Escoja un lugar:

- · Limpio y libre de partículas en suspensión (salvo el polvo normal)
- · Bien ventilado y alejado de fuentes de calor, incluida la luz solar directa.
- · Alejado de fuentes de vibración.
- · Aislado de campos electromagnéticos fuertes producidos por dispositivos eléctricos.
- · En regiones con frecuentes tormentas eléctricas, se recomienda conectar su sistema a un eliminador de sobrevoltage y desconectar el módem de las líneas de telecomunicación durante las tormentas.
- · Previsto de una toma de tierra correctamente instalada.

No intente modificar ni usar el cable de alimentación de corriente alterna, si no se corresponde exactamente con el tipo requerido.

Asegúrese de que cada vez que se quite la cubierta del chasis, el sistema haya sido desconectado de la red de alimentación y de todos lo enlaces de telecomunicaciones, de red y de líneas de módem. No ponga en funcionamiento el sistema mientras la cubierta esté quitada

Wichtige Sicherheitshinweise

1. Bitte lesen Sie sich diese Hinweise sorgfältig durch.

2. Heben Sie diese Anleitung für den spätern Gebrauch auf.

3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Vervenden Sie keine Flüssig- oder Aerosolreiniger. Am besten dient ein angefeuchtetes Tuch zur Reinigung.

4. Um eine Beschädigung des Gerätes zu vermeiden sollten Sie nur Zubehörteile verwenden, die vom Hersteller zugelassen sind.

5. Das Gerät is vor Feuchtigkeit zu schützen.

6. Bei der Aufstellung des Gerätes ist auf sichern Stand zu achten. Ein Kippen oder Fallen könnte Verletzungen hervorrufen. Verwenden Sie nur sichere Standorte und beachten Sie die Aufstellhinweise des Herstellers.

7. Die Belüftungsöffnungen dienen zur Luftzirkulation die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.

8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.

9. Die Netzanschlußsteckdose muß aus Gründen der elektrischen Sicherheit einen Schutzleiterkontakt haben.

10. Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollete auch nichts auf der Leitung abgestellt werden.

11. Alle Hinweise und Warnungen die sich am Geräten befinden sind zu beachten.

12. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.

13. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. Elektrischen Schlag auslösen.

14. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von authorisiertem Servicepersonal geöffnet werden.

15. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einerqualifizierten Servicestelle zu überprüfen:
    a— Netzkabel oder Netzstecker sint beschädigt.
    b— Flüssigkeit ist in das Gerät eingedrungen.
    c— Das Gerät war Feuchtigkeit ausgesetzt.
    d— Wenn das Gerät nicht der Bedienungsanleitung ensprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.
    e— Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
    f— Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.

16. Bei Reparaturen dürfen nur Orginalersatzteile bzw. den Orginalteilen entsprechende Teile verwendet werden. Der Einsatz von ungeeigneten Ersatzteilen kann eine weitere Beschädigung hervorrufen.

17. Wenden Sie sich mit allen Fragen die Service und Repartur betreffen an Ihren Servicepartner. Somit stellen Sie die Betriebssicherheit des Gerätes sicher.

18. Zum Netzanscluß dieses Gerätes ist eine geprüfte Leitung zu verwenden, Für einen Nennstrom bis 6A und einem Gerätegewicht größer 3kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75mm2 einzusetzen.

Limited Hardware Warranty

Intel warrants to the original owner that the hardware product delivered in this package will be free from defects in material and workmanship for three (3) years following the latter of: (i) the date of purchase only if you register by returning the registration card as indicated thereon with proof of purchase; or (ii) the date of manufacture; or (iii) the registration date if by electronic means provided such registration occurs within thirty (30) days from purchase. This warranty does not cover the product if it is damaged in the process of being installed. Intel recommends that you have the company from whom you purchased this product install the product.

INTEL RESERVES THE RIGHT TO FILL YOUR ORDER WITH A PRODUCT CONTAINING NEW OR REMANUFACTURED COMPONENTS. THE ABOVE WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF NONINFRINGEMENT OF INTELLECTUAL PROPERTY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY ARISING OUT OF ANY PROPOSAL, SPECIFICATION, SAMPLE OR OTHERWISE.

This warranty does not cover replacement of products damaged by abuse, accident, misuse, neglect, alteration, repair, disaster, improper installation or improper testing. If the product is found to be otherwise defective, Intel, at its option, will replace or repair the product at no charge except as set forth below, provided that you deliver the product along with a return material authorization (RMA) number either to the company from whom you purchased it or to Intel (North America only). If you ship the product, you must assume the risk of damage or loss in transit. You must use the original container (or the equivalent) and pay the shipping charge. Intel may replace or repair the product with either new or remanufactured product or parts, and the returned product becomes Intel's property. Intel warrants the repaired or replaced product to be free from defects in material and workmanship for a period of the greater of: (i) ninety (90) days from the return shipping date; or (ii) the period of time remaining on the original three (3) year warranty.

This warranty gives you specific legal rights and you may have other rights which vary from state to state. All parts or components contained in this product are covered by Intel's limited warranty for this product; the product may contain fully tested, recycled parts, warranted as if new. For warranty information call one of the numbers below.

Returning a Defective Product (RMA)
Before returning any product, contact an Intel Customer Support Group and obtain an RMA number by calling:

North America only: (916) 377-7000
Other locations: Return the product to the place of purchase.

If the Customer Support Group verifies that the product is defective, they will have the Return Material Authorization Department issue you an RMA number to place on the outer package of the product. Intel cannot accept any product without an RMA number on the package.

LIMITATION OF LIABILITY AND REMEDIES

INTEL SHALL HAVE NO LIABILITY FOR ANY INDIRECT OR SPECULATIVE DAMAGES (INCLUDING, WITHOUT LIMITING THE FOREGOING, CONSEQUENTIAL, INCIDENTAL AND SPECIAL DAMAGES) ARISING FROM THE USE OF OR INABILITY TO USE THIS PRODUCT, WHETHER ARISING OUT OF CONTRACT, NEGLIGENCE, TORT, OR UNDER ANY WARRANTY, IRRESPECTIVE OF WHETHER INTEL HAS ADVANCE NOTICE OF THE POSSIBILITY OF ANY SUCH DAMAGES, INCLUDING, BUT NOT LIMITED TO LOSS OF USE, INFRINGEMENT OF INTELLECTUAL PROPERTY, BUSINESS INTERRUPTIONS, AND LOSS OF PROFITS, NOTWITHSTANDING THE FOREGOING, INTEL'S TOTAL LIABILITY FOR ALL CLAIMS UNDER THIS AGREEMENT SHALL NOT EXCEED THE PRICE PAID FOR THE PRODUCT. THESE LIMITATIONS ON POTENTIAL LIABILITIES WERE AN ESSENTIAL ELEMENT IN SETTING THE PRODUCT PRICE. INTEL NEITHER ASSUMES NOR AUTHORIZES ANYONE TO ASSUME FOR IT ANY OTHER LIABILITIES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

Critical Control Applications: Intel specifically disclaims liability for use of the hardware product in critical control applications (including, for example only, safety or health care control systems, nuclear energy control systems, or air or ground traffic control systems) by Licensee or Sublicensees, and such use is entirely at the user's risk. Licensee agrees to defend, indemnify, and hold Intel harmless from and against any and all claims arising out of use of the hardware product in such applications by Licensee or Sublicensees.

Software: Software provided with the hardware product is not covered under the hardware warranty described above. See the applicable software license agreement which shipped with the hardware product for details on any software warranty.

Limited Hardware Warranty (Europe only)

Intel warrants to the original owner that the hardware product delivered in this package will be free from defects in material and workmanship for three (3) years following the latter of: (i) the date of purchase only if you register by returning the registration card as indicated thereon with proof of purchase; or (ii) the date of manufacture; or (iii) the registration date if by electronic means provided such registration occurs within thirty (30) days from purchase. This warranty does not cover the product if it is damaged in the process of being installed. Intel recommends that you have the company from whom you purchased this product install the product.

INTEL RESERVES THE RIGHT TO FILL YOUR ORDER WITH A PRODUCT CONTAINING NEW OR REMANUFACTURED COMPONENTS. THE ABOVE WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF NONINFRINGEMENT OF INTELLECTUAL PROPERTY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY ARISING OUT OF ANY PROPOSAL, SPECIFICATION, SAMPLE OR OTHERWISE.

This warranty does not cover replacement of products damaged by abuse, accident, misuse, neglect, alteration, repair, disaster, improper installation or improper testing. If the product is found to be otherwise defective, Intel, at its option, will replace or repair the product at no charge except as set forth below, provided that you deliver the product along with a return material authorization (RMA) number either to (a) the company from whom you purchased it or (b) to Intel, North America only (if purchased in Europe you must deliver the product to “(a)”. If you ship the product, you must assume the risk of damage or loss in transit. You must use the original container (or the equivalent) and pay the shipping charge. Intel may replace or repair the product with either new or remanufactured product or parts, and the returned product becomes Intel’s property. Intel warrants the repaired or replaced product to be free from defects in material and workmanship for a period of the greater of: (i) ninety (90) days from the return shipping date; or (ii) the period of time remaining on the original three (3) year warranty.

This warranty gives you specific legal rights and you may have other rights which vary from state to state. All parts or components contained in this product are covered by Intel’s limited warranty for this product; the product may contain fully tested, recycled parts, warranted as if new. For warranty information call one of the numbers below.

Returning a Defective Product (RMA)
Before returning any product, contact an Intel Customer Support Group and obtain an RMA number by calling the non-toll free numbers below:

Country	Number	Language
France	+33 (0) 1 41 91 85 29	French
Germany	+49 (0) 69 9509 6099	German
Italy	+39 (0) 2 696 33276	Italian
UK	+44 (0) 870 607 2439	English

If the Customer Support Group verifies that the product is defective, they will have the Return Material Authorization Department issue you an RMA number to place on the outer package of the product. Intel cannot accept any product without an RMA number on the package.

LIMITATION OF LIABILITY AND REMEDIES

INTEL SHALL HAVE NO LIABILITY FOR ANY INDIRECT OR SPECULATIVE DAMAGES (INCLUDING, WITHOUT LIMITING THE FOREGOING, CONSEQUENTIAL, INCIDENTAL AND SPECIAL DAMAGES) ARISING FROM THE USE OF OR INABILITY TO USE THIS PRODUCT, WHETHER ARISING OUT OF CONTRACT, NEGLIGENCE, TORT, OR UNDER ANY WARRANTY, IRRESPECTIVE OF WHETHER INTEL HAS ADVANCE NOTICE OF THE POSSIBILITY OF ANY SUCH DAMAGES, INCLUDING, BUT NOT LIMITED TO LOSS OF USE, INFRINGEMENT OF INTELLECTUAL PROPERTY, BUSINESS INTERRUPTIONS, AND LOSS OF PROFITS, NOTWITHSTANDING THE FOREGOING, INTEL’S TOTAL LIABILITY FOR ALL CLAIMS UNDER THIS AGREEMENT SHALL NOT EXCEED THE PRICE PAID FOR THE PRODUCT. THESE LIMITATIONS ON POTENTIAL LIABILITIES WERE AN ESSENTIAL ELEMENT IN SETTING THE PRODUCT PRICE. INTEL NEITHER ASSUMES NOR AUTHORIZES ANYONE TO ASSUME FOR IT ANY OTHER LIABILITIES.

Critical Control Applications: Intel specifically disclaims liability for use of the hardware product in critical control applications (including, for example only, safety or health care control systems, nuclear energy control systems, or air or ground traffic control systems) by Licensee or Sublicensees, and such use is entirely at the user’s risk. Licensee agrees to defend, indemnify, and hold Intel harmless from and against any and all claims arising out of use of the hardware product in such applications by Licensee or Sublicensees.

Software: Software provided with the hardware product is not covered under the hardware warranty described above. See the applicable software license agreement which shipped with the hardware product for details on any software warranty.

This limited hardware warranty shall be governed by and construed in accordance with the laws of England and Wales. The courts of England shall have exclusive jurisdiction regarding any claim brought under this warranty.

Limitation de garantie du matériel (Europe)

Intel garantit au propriétaire original que le produit matériel livré dans le présent coffret est exempt de défaut matériel ou de fabrication pour une période de trois (3) ans à compter de la plus récente des dates suivantes : (i) la date d'achat uniquement si vous vous êtes inscrit en renvoyant la carte d'inscription de la façon indiquée, avec une preuve d'achat ; (ii) la date de fabrication ou (iii) la date d'inscription électronique à condition qu'elle ait lieu dans les 30 jours suivant l'achat. La présente garantie sera nulle si le produit matériel est endommagé lors de son installation. Intel recommande de faire installer le produit matériel par la société auprès de laquelle il a été acheté.

INTEL SE RESERVE LE DROIT DE VOUS LIVRER UN PRODUIT CONTENANT DES COMPOSANTS NOUVEAUX OU REPARES. CETTE GARANTIE REMPLACE TOUTES LES AUTRES GARANTIES, EXPRESSES, TACITES OU LEGALES, Y COMPRIS, MAIS SANS QUE CETTE ENUMERATION SOIT LIMITATIVE, LES GARANTIES CONCERNANT LE NON RESPECT DE LA PROPRIETE INTELLECTUELLE, LA QUALITE SATISFAISANTE, L'ADEQUATION POUR UN USAGE PARTICULIER, OU TOUTE AUTRE GARANTIE ISSUE DE TOUT AUTRE PROPOSITION, SPECIFICATION, ECHANTILLON OU AUTRE.

La présente garantie ne couvre pas le remplacement de produits matériels endommagés par abus, accident, mauvaise utilisation, négligence, altération, réparation, catastrophe, installation ou tests incorrects. Si le produit matériel s'avère défectueux pour une autre raison, Intel décidera de le remplacer ou de le réparer gratuitement, à l'exception des cas énumérés ci-après, à condition que le produit soit renvoyé avec un numéro d'autorisation de retour du matériel (ARM) à (a) la société auprès de laquelle il a été acheté ou (b) à Intel, en Amérique du Nord seulement (si l'achat a eu lieu en Europe vous devez le renvoyer à "(a)". Si vous expediéz le produit matériel, vous devez assumer le risque de dégâts ou de perte pendant le transport. Vous devez utiliser le coffret original (ou l'équivalent) et payer les frais de transport. Intel peut réparer le produit matériel ou le remplacer par un produit neuf ou remis à neuf, le produit renvoyé devenant la propriété d'Intel. Intel garantit que le produit matériel réparé ou de remplacement est exempt de défaut matériel ou de fabrication pendant la plus longue des périodes suivantes: (i) quatre-vingt-dix (90) jours à compter de la date de retour; ou (ii) la période encore couverte par la garantie originale de trois (3) ans.

La présente garantie vous accorde des droits juridiques spécifiques et vous pouvez également disposer d'autres droits variant d'un Etat à l'autre. Tous les composants ou pièces du produit matériel sont couverts par la garantie limitée d'Intel relative à ce dernier ; il peut contenir des pièces recyclées, entièrement testées et garanties comme neuves. Pour plus d'informations sur la garantie, appelez l'un des numéros énumérés ci-après.

Retour d'un produit défectueux (ARM)
Avant de retourner un produit matériel, contactez le service d'assistance à la clientèle Intel pour obtenir un numéro ARM.

Pays	Numéro	Langue
France	+33 (0) 1 41 91 85 29	Français
Allemagne	+49 (0) 69 9509 6099	Allemand
Italie	+39 (0) 2 696 33276	Italien
R.U.	+44 (0) 870 607 2439	Anglais

Si le service d'assistance confirme que le produit est défectueux, il demandera au Département d'autorisation de retour de matériel de vous attribuer un numéro ARM à indiquer sur l'emballage externe. Intel ne peut accepter aucun produit sans numéro ARM.

LIMITATION DE RESPONSABILITE ET DE RECOURS

INTEL DECLINE TOUTE RESPONSABILITE RELATIVE A DES DOMMAGES INDIRECTS OU SPECULATIFS (Y COMPRIS, SANS LIMITATION DES ELEMENTS CI-DESSUS, LES DOMMAGES CONSECUTIFS, ACCIDENTELS ET SPECIAUX) DECOULANT DE L'UTILISATION OU DE L'INCAPACITE D'UTILISER CE PRODUIT, DUS A UN CONTRAT, UNE NEGLIGENCE, UN TORT OU COUVERTS PAR TOUTE GARANTIE, MEME SI LA POSSIBILITE D'UN TEL DOMMAGE A DEJA ETE PORTEE A LA CONNAISSANCE D'INTEL, Y COMPRIS, MAIS SANS QUE CETTE ENUMERATION SOIT LIMITATIVE, UNE PRIVATION DE JOUISSANCE, UN NON RESPECT DE LA PROPRIETE INTELLECTUELLE, UNE INTERRUPTION DES ACTIVITES ET UN MANQUE A GAGNER . NONOBSTANT LA DECLARATION QUI PRECEDE, LA RESPONSABILITE GLOBALE DE INTEL CONCERNANT TOUS LES LITIGES RELATIFS AU PRESENT ACCORD NE SERA PAS SUPERIEURE AU PRIX PAYE POUR LE PRODUIT. CES LIMITATIONS DE RESPONSABILITE POTENTIELLE ONT CONSTITUE UN FACTEUR DETERMINANT LORS DE LA FIXATION DU PRIX DU PRODUIT. INTEL N'ASSUME AUCUNE AUTRE RESPONSABILITE ET N'AUTORISE QUICONQUE A LE FAIRE EN SON NOM.

Applications de contrôle critique: Intel décline toute responsabilité en cas d'utilisation du produit matériel dans le cadre d'applications de contrôle critique (y compris et pour ne citer que des exemples, les systèmes de contrôle de sécurité ou de services médicaux, les systèmes de contrôle d'énergie nucléaire, ou de trafic terrestre ou aérien) par le licencié ou le sous-licencié, l'utilisateur encourt entièrement les risques d'une telle utilisation. Le titulaire de la licence accepte de défendre, d'indemniser et de garantir Intel de toute réclamation survenant par suite de l'utilisation du produit matériel dans de telles applications par le licencié ou le sous-licencié.

Logiciel: Le logiciel fourni avec le produit matériel n'est pas couvert par la garantie du matériel décrite ci-dessus. Consultez l'accord de licence du logiciel qui accompagne le produit matériel pour obtenir des détails sur la garantie du logiciel.

La garantie limitée du matériel est régie et interprétée par les lois en vigueur en Angleterre et au Pays de Galles. Les tribunaux anglais jouissent d'une juridiction exclusive en matière de litige concernant cette garantie.

Garanzia limitata sull’hardware (valida solo in Europa)

Intel garantisce al proprietario originale che il prodotto hardware incluso in questo pacchetto è privo di difetti in materiale e in lavorazione per un periodo di tre (3) anni a partire dall’ultima data tra: (i) la data di acquisto, solo nel caso in cui l’utente effettua la registrazione tramite la scheda di registrazione, come indicato, accompagnata dalla prova di acquisto; oppure (ii) la data di fabbricazione; oppure (iii) la data di registrazione, se effettuata per via elettronica, a condizione che tale registrazione avvenga entro trenta (30) giorni dall’acquisto. Questa garanzia non copre il prodotto nel caso questo fosse danneggiato durante l’installazione. Intel raccomanda di fare installare il prodotto dall’azienda da cui il prodotto è stato acquistato.

INTEL SI RISERVA IL DIRITTO DI ONORARE L’ORDINAZIONE CON UN PRODOTTO CONTENENTE PARTI NUOVE O RIFABBRICATO. LA GARANZIA QUI SOPRA SOSTITUISCE QUALSIASI ALTRA GARANZIA, SIA QUELLA ESPLICITA, IMPLICITA O STATUTORIA, INCLUSO, MA NON LIMITATO A, QUALSIASI GARANZIA DI NON VIOLAZIONE DI PROPRIETÀ INTELLETTUALE, QUALITÀ SODDISFACENTE, IDONEITÀ A QUALSIASI SCOPO PARTICOLARE O QUALSIASI GARANZIA DERIVANTE DA PROPOSTA, SPECIFICAZIONI, CAMPIONI O ALTRO.

Questa garanzia non include la sostituzione di prodotti danneggiati a causa di abuso, incidente, uso inappropriato, negligenza, alterazione, riparazione, disastro, installazione o controllo inadeguati. Se il prodotto viene considerato difettoso per altri motivi, Intel, a sua discrezione, sostituirà o riparerà il prodotto, a proprie spese, eccetto nei casi qui sotto menzionati, a condizione che il prodotto venga consegnato congiuntamente al numero di autorizzazione per la restituzione del materiale (RMA, Return Material Authorization) (a) all’azienda da cui si è acquistato il prodotto, oppure (b) a Intel, solo quando in Nord America (se il prodotto è stato acquistato in Europa, sarà necessario consegnare il prodotto seguendo le modalità indicate in “(a)”). Se il prodotto viene inviato, il mittente si assume la responsabilità in caso di danni o di perdita durante il tragitto. È necessario utilizzare l’imballaggio originale del prodotto (o un suo equivalente) e pagare le spese di spedizione. Intel sostituirà o riparerà il prodotto (o la parte) con uno nuovo o uno rifabbricato, e il prodotto restituito diventerà proprietà di Intel. Intel garantisce che il prodotto riparato o sostituito sarà privo di difetti in materiale e in lavorazione per un periodo comunque non superiore: (i) a novanta (90) giorni dalla data di spedizione all’utente; oppure (ii) al periodo rimanente nella garanzia originale di tre (3) anni.

Questa garanzia dà all’utente diritti legali specifici; potrebbero esistere altri diritti, variabili da stato a stato. Tutte le parti e i componenti contenuti in questo prodotto sono coperti dalla garanzia limitata di Intel relativa a questo prodotto; il prodotto potrebbe contenere parti riciclate, completamente collaudate e garantite come nuove. Per maggiori informazioni sulla garanzia, chiamare uno dei numeri indicati qui sotto.

Restituzione di prodotti difettosi (RMA)
Prima di restituire un prodotto, contattare l’assistenza tecnica di Intel e richiedere un numero RMA; i numeri verdi sono qui sotto elencati:

Paese	Numero	Lingua
Francia	+33 (0) 1 41 91 85 29	Francese
Germania	+49 (0) 69 9509 6099	Tedesco
Italia	+39 (0) 2 696 33276	Italiano
Regno Unito	+44 (0) 870 607 2439	Inglese

Se il gruppo di supporto alla clientela determina che il prodotto è difettoso, richiederà l’emissione di un numero di autorizzazione per la restituzione del materiale (RMA) da porre all’esterno dell’imballaggio del prodotto. Intel non accetterà prodotti sprovvisti di tale numero visibile sull’imballaggio.

LIMITAZIONI DI RESPONSABILITÀ E RIMEDI

INTEL NON POTRÀ ESSERE CONSIDERATA RESPONSABILE DI ALCUN DANNO, DIRETTO O SPECULATIVO (INCLUSI, SENZA LIMITAZIONI COME INDICATO IN PRECEDENZA, I DANNI CONSEQUENZIALI, INCIDENTALI E SPECIALI) DERIVANTI DALL’USO O DALLA IMPOSSIBILITÀ DI UTILIZZARE QUESTO PRODOTTO, PER MOTIVI NON CONTEMPLATI NEL CONTRATTO, O DOVUTI A NEGLIGENZA, TORTO O SOTTO QUALSIASI GARANZIA, INDIPENDENTEMENTE DAL FATTO CHE INTEL SIA A CONOSCENZA O MENO DELLA POSSIBILITÀ DI TALI DANNI, INCLUSI, MA NON LIMITATI ALLA PERDITA D’USO, VIOLAZIONE DI PROPRIETÀ INTELLETTUALE, INTERRUZIONI D’AFFARI E PERDITA DI PROFITTI, NONOSTANTE QUANTO DETTO IN PRECEDENZA, LA RESPONSABILITÀ TOTALE DI INTEL NEI CONFRONTI DEI RECLAMI, SECONDO QUESTO ACCORDO, NON ECCEDERÀ IL PREZZO PAGATO PER IL PRODOTTO. QUESTE LIMITAZIONI SULLE RESPONSABILITÀ POTENZIALI SONO STATE FATTORE DECISIVO NELLA DETERMINAZIONE DEL PREZZO DEL PRODOTTO. INTEL NON ASSUME, NÉ AUTORIZZA ALCUNO AD ASSUMERE PER SÉ, NESSUN’ALTRA RESPONSABILITÀ.

Applicazioni di controllo di situazioni critiche: Intel disconosce specificatamente la responsabilità nel caso di uso dell’hardware in applicazioni di controllo di situazioni critiche (inclusi, al solo scopo di esempio, sistemi di controllo della sicurezza o della salute, dell’energia nucleare, o sistemi di controllo aereo o terrestre) da parte dei licenziatari o dei sottolicenziatari, e tale uso fa parte completamente del rischio intrapreso dall’utente. Il licenziatario è d’accordo nel difendere, indennizzare e liberare Intel da ogni reclamo risultante dall’uso del prodotto hardware in tale applicazioni da parte del licenziatario o del sottolicenziatario.

Software: il software accluso al prodotto hardware non è coperto dalla garanzia dell’hardware sopra descritta. Per maggiori dettagli sulla garanzia del software, vedere l’accordo di licenza relativo al software, inviato assieme al prodotto hardware.

Questa garanzia limitata dell’hardware è governata da, ed è conforme a, le leggi di Inghilterra e Galles. Il tribunale di Inghilterra avrà la completa giurisdizione su qualsiasi reclamo presentato sotto questa garanzia.

Beschränkte Hardwaregarantie (Nur für Europa)

Intel garantiert dem ursprünglichen Eigentümer, daß die in diesem Paket enthaltene Hardware keine Material- oder Herstellungsfehler aufweist. Diese Garantie gilt für drei (3) Jahre (a) nach dem Kaufdatum, wenn die ausgefüllte Registrierungskarte entsprechend den darauf enthaltenen Angaben zusammen mit einem Kaufnachweis eingesendet wurde; oder (b) nach dem Herstellungsdatum; oder (c) nach dem Registrierungsdatum, wenn die Registrierung innerhalb von 30 Tagen auf elektronischem Weg durchgeführt wird. Diese Garantie entfällt, wenn die Hardware bei der Installation beschädigt wird. Intel empfiehlt, die Installation durch den Verkäufer der Hardware durchführen zu lassen.

INTEL BEHÄLT SICH DAS RECHT VOR, IHREN AUFTRAG MIT EINEM PRODUKT ZU ERFÜLLEN, DAS NEUE ODER ERNEUERTE KOMPONENTEN ENTHÄLT. OBIGE GARANTIE GILT ANSTELLE ALLER ANDEREN AUSDRÜCKLICHEN, STILLSCHWEIGENDEN ODER GESETZLICH FESTGELEGTEN GARANTIEN. AUSGESCHLOSSEN SIND DAMIT AUCH UNTER ANDEREM ALLE GARANTIEN FÜR DIE VERKEHRSFÄHIGKEIT, DIE VERLETZUNG DER RECHTE VON DRITTEN, DIE EIGNUNG FÜR EINEN BESTIMMTEN ZWECK ODER GARANTIEN, DIE IM ZUSAMMENHANG MIT EINEM ANGEBOT, EINER SPEZIFIKATION ODER EINEM MUSTER GEGEBEN WURDEN.

Diese Garantie schließt den Hardware-Ersatz bei Beschädigung aufgrund von Mutwilligkeit, Unfall, falscher Verwendung, Fahrlässigkeit, Umänderung, Reparatur, Katastrophen, falscher Installation oder unvorschriftsmäßigem Testen aus. Wenn das Hardwareprodukt aus anderen Gründen beschädigt ist, liegt die Entscheidung bei Intel, ob die Hardware mit Ausnahme der im folgenden beschriebenen Einschränkungen kostenlos ersetzt oder repariert wird. Hierzu müssen Sie das Produkt zusammen mit einer Rückgabenummer (RMA-Nummer, siehe unten) entweder (a) an den Verkäufer des Produkts oder (b) an Intel zurücksenden (bei Kauf in Europa muß das Produkt an “(a)” geliefert werden). Das Risiko des Verlusts oder der Beschädigung während des Transports liegt bei Ihnen als Käufer. Sie müssen zum Versenden die Originalverpackung (oder einen gleichwertigen Ersatz) verwenden und die Versandkosten übernehmen. Intel ersetzt die Hardware entweder durch ein neues oder ein neuwertiges Produkt. Das zurückgegebene Hardwareprodukt wird Eigentum von Intel. Intel garantiert, daß das reparierte oder ersetzte Hardwareprodukt für einen Zeitraum von: (i) neunzig (90) Tagen ab Rückgabedatum oder (ii) für die verbleibende Zeit der ursprünglichen Garantie von drei (3) Jahren frei von Material- und Herstellungsfehlern ist. Dabei gilt jeweils der längere Zeitraum.

Mit dieser Garantie erhalten Sie bestimmte Rechte, die je nach Staat durch weitere Rechte ergänzt werden können. Alle Teile oder Komponenten dieses Hardwareprodukts werden durch die beschränkte Hardwaregarantie von Intel abgedeckt. Das Hardwareprodukt kann vollständig getestete, wiederverwendete Teile enthalten, die derselben Garantie wie neue Produkte unterliegen. Informationen zur Garantie erhalten Sie unter einer der Intel Kundendienstnummern, die am Ende dieses Handbuchs zu finden sind.

Rückgabe eines beschädigten Produkts (RMA)

Bevor Sie ein Hardwareprodukt zurücksenden, sollten Sie sich vom Intel Kundendienst eine sogenannte RMA-Nummer zuweisen lassen, indem Sie eine der folgenden gebührenpflichtigen Telefonnummern anrufen:

Land	Telefon	Sprache
Frankreich	+33 (0) 1 41 91 85 29	Französisch
Deutschland	+49 (0) 69 9509 6099	Deutsch
Italien	+39 (0) 2 696 33276	Italienisch
GB	+44 (0) 870 607 2439	Englisch

Nachdem die Beschädigung vom Kundendienst bestätigt worden ist, wird von der zuständigen Abteilung eine Rückgabenummer (RMA-Nummer) ausgegeben, die auf der äußeren Verpackung der Hardware angebracht werden muß. Intel akzeptiert kein Produkt ohne RMA-Nummer auf der Verpackung.

Haftungsbeschränkung und Rechtsmittel

INTEL HAFTET NICHT FÜR INDIREKTE ODER SPEKULATIVE SCHÄDEN (EINSCHLIESSLICH ALLER FOLGESCHÄDEN SOWIE ALLER ZUFÄLLIGEN UND BESONDEREN SCHÄDEN), DIE DURCH DIE VERWENDUNG ODER NICHTVERWENDBARKEIT DIESES PRODUKTS ENTSTEHEN, SEI DIES IM ZUSAMMENHANG MIT EINER VERTRAGLICHEN VERPFLICHTUNG, AUFGRUND VON FAHRLÄSSIGKEIT, DURCH UNERLAUBTE HANDLUNGEN ODER IM RAHMEN EINER GARANTIE. DIES GILT AUCH FÜR FÄLLE, IN DENEN INTEL ÜBER DIE MÖGLICHKEIT SOLCHER SCHÄDEN, DIE SICH UNTER ANDEREM DURCH NUTZUNGSAUSFÄLLE, BETRIEBSUNTERBRECHUNGEN UND GEWINNVERLUSTE ERGEBEN KÖNNEN, IN KENNTNIS GESETZT WURDE.

UNGEACHTET DER GEWÄHRTEN GARANTIE ÜBERSTEIGT DIE HAFTUNG VON INTEL IM RAHMEN DIESER VEREINBARUNG IN KEINEM FALL DEN KAUFPREIS DES HARDWAREPRODUKTS. DIESE HAFTUNGSBESCHRÄNKUNG IST EIN WESENTLICHER FAKTOR BEI DER FESTLEGUNG DES PREISES FÜR DAS HARDWAREPRODUKT. INTEL ÜBERNIMMT KEINE WEITERE HAFTUNG UND ERTEILT DRITTEN KEINERLEI BEFUGNIS, FÜR INTEL EINE WEITERE HAFTUNG ZU ÜBERNEHMEN.

Steuer- und Überwachungsanwendung von hoher Wichtigkeit: Intel schließt insbesondere die Haftung bei der Verwendung des Hardwareprodukts mit Steueranwendungen von hoher Wichtigkeit (z.B. Sicherheits- und Krankenversicherungssysteme, Steuersysteme für Nuklearanlagen sowie Verkehrsüberwachungssysteme für Boden- und Luftverkehr) durch den Lizenznehmer oder Unterlizenznehmer ab, und eine derartige Verwendung liegt ausschließlich in der Verantwortung des Benutzers. Der Lizenznehmer erklärt sich bereit, Intel zu verteidigen und schadlos zu halten bezüglich aller Klagen, die aus der Verwendung eines Hardwareprodukts für solche Zwecke vom Lizenznehmer oder Unterlizenznehmern erhoben werden.

Software: Die mit diesem Hardwareprodukt gelieferte Software wird von der oben beschriebenen Hardwaregarantie nicht abgedeckt. Bitte lesen Sie die entsprechende Softwarelizenzvereinbarung, die mit dem Hardwareprodukt geliefert wurde, um genaue Informationen zur Softwaregarantie zu erhalten.

Diese eingeschränkte Hardwaregarantie unterliegt den Gesetzen von England und Wales. Die englischen Gerichte sind Gerichtsstand für alle Klagen, die im Rahmen der Garantie erhoben werden.

Garantía limitada de hardware (sólo para Europa)

Intel garantiza al propietario original que el producto de hardware entregado en este paquete no tendrá defectos de materiales ni fabricación durante tres (3) años contados a partir de la fecha que resulte más reciente de entre las opciones siguientes: (i) la fecha de compra, sólo si devuelve la tarjeta de registro con prueba de compra de la forma indicada al respecto para registrarse; o bien (ii) la fecha de fabricación; o (iii) la fecha de registro, si éste se ha producido por medios electrónicos y dentro de los treinta (30) días siguientes a la compra. Esta garantía no cubre los daños sufridos por el producto durante el proceso de instalación. Intel recomienda que sea la empresa a la que adquirió el producto la que se encargue de su instalación.

INTEL SE RESERVA EL DERECHO DE CUMPLIMENTAR EL PEDIDO CON UN PRODUCTO QUE CONTENGA COMPONENTES NUEVOS O REFRABRICADOS. LA GARANTÍA ANTERIOR PREVALECE SOBRE CUALQUIER OTRA GARANTÍA, YA SEA EXPLÍCITA, IMPLÍCITA O REGLAMENTARIA, INCLUIDAS, SIN LIMITACIÓN, CUALESQUIERA GARANTÍAS DE NO INFRINGIMIENTO DE LA PROPIEDAD INTELECTUAL, CALIDAD SATISFACTORIA, ADECUACIÓN PARA UNA FINALIDAD DETERMINADA O CUALQUIER GARANTÍA SURGIDA DE CUALQUIER PROPUESTA, ESPECIFICACIÓN, MUESTRA O DE OTRA CLASE.

Esta garantía no cubre la sustitución de productos dañados por abuso, accidente, mal uso, negligencia, alteración, reparación, desastre, instalación incorrecta o pruebas incorrectas. Si el producto tuviera cualquier otro defecto, Intel se reserva la opción de reemplazar o reparar el producto sin cargo alguno, excepto los descritos a continuación, siempre que el producto se entregue con un número de autorización de devolución de material (RMA), a (a) la empresa a la que se adquirió o (b) a Intel, sólo en América del Norte (si lo adquirió en Europa, debe entregar el producto a “(a)”. Si envía el producto, debe asumir el riesgo de daños o pérdida en el transporte. Debe utilizar el embalaje original (o equivalente) y costear los gastos de envío. Intel puede reemplazar o reparar el producto con piezas o productos nuevos o refabricados, y el producto devuelto pasa a ser propiedad de Intel. Intel garantiza que el producto reparado o reemplazado no tendrá defectos materiales ni de fabricación durante el periodo que resulte mayor de los siguientes: (i) noventa (90) días desde la fecha de envío; o (ii) el periodo de tiempo restante de la garantía original de tres (3) años.

Esta garantía le otorga derechos legales concretos y puede tener otros derechos que varían según la jurisdicción. Todas las piezas o componentes que contiene este producto están cubiertos por la garantía limitada de Intel sobre este producto; el producto puede contener piezas recicladas, completamente comprobadas, garantizadas como si de piezas nuevas se tratase. Si desea obtener más información sobre la garantía, puede llamar a uno de los números indicados a continuación.

Devolución de productos defectuosos (RMA)

Antes de devolver cualquier producto, póngase en contacto con el grupo de Asistencia al cliente de Intel y obtenga un número RMA en uno de los siguientes números no gratuitos:

País	Número	Idioma
Francia	+33 (0) 1 41 91 85 29	Francés
Alemania	+49 (0) 69 9509 6099	Alemán
Italia	+39 (0) 2 696 33276	Italiano
Reino Unido	+44 (0) 870 607 2439	Inglés

Si el grupo de Asistencia al cliente comprueba que el producto es defectuoso, se podrá en contacto con el Departamento de autorización de devolución de material para que éste le envíe un número RMA que debe colocar en el envoltorio externo del producto. Intel no puede aceptar productos sin el número RMA en el paquete.

LIMITACIÓN DE RESPONSABILIDAD Y REPARACIONES

INTEL NO SERÁ RESPONSABLE DE NINGÚN DAÑO INDIRECTO O ESPECULATIVO (INCLUIDOS, SIN LIMITAR A LOS ANTERIORES, LOS DAÑOS INDIRECTOS, INCIDENTALES Y ESPECIALES) PRODUCIDO POR EL USO O POR LA IMPOSIBILIDAD DEL USO DE ESTE PRODUCTO, YA PROVENGA DE CONTRATO, NEGLIGENCIA, AGRAVIO O BAJO CUALQUIER GARANTÍA, SIN IMPORTAR QUE INTEL HAYA RECIBIDO PREVIO AVISO DE LA POSIBILIDAD DE DICHOS DAÑOS, INCLUIDOS, AUNQUE NO LIMITADOS A, PÉRDIDAS DE USO, INFRINGIMIENTO DE LA PROPIEDAD INTELECTUAL, SUSPENSIÓN DEL EJERCICIO COMERCIAL Y PÉRDIDA DE BENEFICIOS, A PESAR DE LO ANTERIOR, TODA LA RESPONSABILIDAD DE INTEL SOBRE LAS RECLAMACIONES REALIZADAS BAJO ESTE ACUERDO NO EXCEDERÁ EL PRECIO PAGADO POR EL PRODUCTO. ESTAS LIMITACIONES SOBRE LAS RESPONSABILIDADES POTENCIALES HAN CONSTITUIDO UN ELEMENTO ESENCIAL A LA HORA DE DETERMINAR EL PRECIO DEL PRODUCTO. INTEL NO ASUME NI AUTORIZA QUE NINGUNA PERSONA ASUMA EN SU LUGAR NINGUNA OTRA RESPONSABILIDAD.

Aplicaciones de control crítico: Intel deniega específicamente la responsabilidad por el uso del producto de hardware en aplicaciones de control crítico (incluidos, sólo a modo de ejemplo, los sistemas de seguridad o atención sanitaria, sistemas de control de energía nuclear o sistemas de control de tráfico aéreo o rodado) por Receptores o Subreceptores de la Licencia, y dicho uso queda enteramente a riesgo del usuario. El Receptor de la Licencia acuerda defender, indemnizar y mantener la inocencia de Intel por y contra toda reclamación surgida del uso del producto de hardware en tales aplicaciones por parte del Receptor o Subreceptor de la Licencia.

Software: El software proporcionado con el producto de hardware no está cubierto por la garantía de hardware descrita anteriormente. Si desea obtener información detallada sobre las garantías de software, consulte el acuerdo de licencia correspondiente al software incluido con el producto de hardware.

Esta garantía limitada de hardware se regirá e interpretará de acuerdo con las leyes de Inglaterra y Gales. Los tribunales de Inglaterra tendrán la exclusiva jurisdicción sobre todas las reclamaciones presentadas bajo esta garantía.

Intel Customer Support

You can purchase a range of support services including hardware, software, phone and on-site installation services. Services are designed and packaged for ease of ordering and provide reliable, flexible support for your networking equipment. For details about Intel® NetStructure℠ Support Services, go to www.intel.com/network/services.

Worldwide Access to Technical Support

Intel has technical support centers worldwide. Technicians who speak the local languages staff many of the centers. Visit our Web site at support.intel.com or contact your local dealer/distributor.

United States and Canada only

For support, call **(800) 838-7136** or **(916) 377-7000**.

Japan only

For support, call **+81-298-47-0800**.

Other areas
(Access number + 800-838-7136)

For support in other countries, use the following table to dial the toll-free support number. Using the table, locate the country from which you are calling, dial the access number, wait for the dial tone, and then dial 800-838-7136.

Country	Access Number
Australia	1-800-881-011
Austria [1 4]	022-903-011
Belgium [1]	0-800-100-10
China [3]	10811
Denmark	8001-0010
Finland [1]	9800-100-10
France (Includes Andorra)	19-0011
Germany	0130-0010
Hong Kong	800-1111
India [5]	000-117

Country	Number
Indonesia [2]	001-801-10
Italy (Includes Vatican City) [1]	172-1011
Korea [1]	0-911
Malaysia [4]	800-0011
Netherlands [1]	06-022-9111
New Zealand	000-911
Norway	800-190-11
Pakistan	0080001001
Philippines	105-11
Poland [1 3]	0-0-800-111-1111
Portugal [3]	05017-1-288
RSA (South Africa)	0-800-99-0123
Russia [1 2 3]	755-5042
Singapore	800-0111-111
Spain	900-99-00-11
Sri Lanka	430-430
Sweden	020-795-611
Switzerland [1]	0-800-550011
Taiwan [1]	0080-10288-0
Thailand [5]	0019-991-1111
United Kingdom (BT) [3]	0800-89-0011
United Kingdom (Mercury) [3]	0500-89-0011
Vietnam	12010288

Notes:

1 Public phones require coin deposit

2 Use phones allowing international access

3 May not be available from every phone

4 Public phones require local phone payment through the call duration

5 Not available from public phones

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